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College of Arts and Sciences

Brandeis University Bulletin 1980-81

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Programs, requirements, fees and other information are set forth herein as they exist at the date of this publication. Brandeis University reserves the right to make changes without notice.

It is the policy of Brandeis University not to discriminate against any applicant on the basis of race, color, religion, sex, age, national origin, or the presence of any handicap. The University operates under an affirmative action plan and encourages minorities and women to apply. Inquiries concerning discrimination under Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973 may be referred to the Assistant to the President for Affirmative Action, Irving Enclave, Room 118, Brandeis University and/or to the Director, Office for Civil Rights, U.S. Department of Education, Washington, D.C.

Brandeis University

The College of Arts and Sciences 1980-81

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"It must always be rich in goals and ideals, seemingly attainable but beyond immediate reach . . .

"It must become truly a seat of learning where research is pursued, books written, and the creative instinct is aroused, encouraged, and developed in its faculty and students.

"It must ever be mindful that education is a precious treasure transmitted — a sacred trust to be held, used, and enjoyed, and if possible strengthened, then passed on to others upon the same trust."

— from the writings of
LOUIS DEMBITZ BRANDEIS (1856-1941)
on the goals of a university.

"Brandeis will be an institution of quality, where the integrity of learning, of research, of writing, of teaching, will not be compromised. An institution bearing the name of Justice Brandeis must be dedicated to conscientiousness in research and to honesty in the exploration of truth to its innermost parts.

"Brandeis University will be a school of the spirit — a school in which the temper and climate of the mind will take precedence over the acquisition of skills and the development of techniques.

"Brandeis will be a dwelling place of permanent values — those few unchanging values of beauty, of righteousness, of freedom, which man has ever sought to attain.

"Brandeis will offer its opportunities of learning to all. Neither student body nor faculty will ever be chosen on the basis of population proportions, whether ethnic or religious or economic."

DR. ABRAM L. SACHAR, Brandeis' first president, at ceremonies
inaugurating the University, October 7, 1948

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Academic Calendar 1980-81

Fall Term

Sunday	August 24	Dorms open; new students arrive
Monday	August 25	Orientation; registration for freshmen, new students and transfers
Thursday	August 28	Registration for returning students
Monday	September 1	Labor Day (staff holiday)
Tuesday	September 2	First day of instruction
Wednesday-Friday	September 10-September 12	Rosh Hashanah — no university exercises
Thursday	September 25	Succot — no university exercises
Thursday	October 2	Sh'mini Atzeret — no university exercises
Thursday-Friday	November 27-November 28	Thanksgiving — no university exercises
Wednesday	December 10	Last day of instruction
Thursday-Friday	December 11-December 12	Study days
Monday-Friday	December 15-December 19	Examination period

Spring Term

Wednesday	January 21	Registration for new and returning students
Thursday	January 22	First day of instruction
Monday	February 16	Washington's Birthday — no university exercises; staff holiday
Friday-Sunday	April 16-April 26	Spring vacation
Friday	May 1	Last day of instruction
Monday-Tuesday	May 4-May 5	Study days
Wednesday-Tuesday	May 6-May 12	Examination period
Thursday	May 21	Commencement

Breaking New Ground

Founded in 1948, amidst the post-World War II explosion of knowledge, Brandeis University literally began at the beginning — at the edge of an educational frontier — but is regarded today as one of the finest small, private research universities in the United States.

Named for the illustrious Supreme Court Justice Louis Dembitz Brandeis, whose far-reaching social vision advanced the welfare of his country, Brandeis is the only Jewish-sponsored, nonsectarian institution of higher learning in America. It is built on the faith in our basic heritage in the humanities, the sciences, the social sciences and the creative arts.

An unswerving commitment to excellence earned early recognition for the young university. Brandeis achieved accreditation in the shortest possible time (1953), and received Phi Beta Kappa recognition just 13 years after it was founded — the youngest institution so honored in over 100 years. The Ford Foundation, assessing the Brandeis record, buttressed its belief in the Brandeis potential during the 1960s with two major challenge grants for academic excellence, an accolade accorded to only five universities in the nation.

The giant multi-universities offer superb facilities and a faculty often too isolated by research from their students. Smaller institutions offer dedicated teachers who, for lack of time or facilities, have stopped doing research. The best of both models meet in only a handful of small schools in the United States. Brandeis is one of them.

Originally accredited in 1953 by the New England Association of Schools and Colleges, Brandeis was approved in 1977 for continuing membership in the Association for ten years, the maximum period available. Of the 2,000 accredited colleges and universities in the nation, about 100 are also known as "research centers." Brandeis is among this select group. In a survey of professional school deans, the Florence Heller Graduate School for Advanced Studies in Social Welfare was recently ranked fourth in the country among schools of social work. Advanced Judaic studies at Brandeis were described as representing one of the best graduate programs in North America in a study at the Graduate Theological Union of Berkeley, Calif. that examined 75 American and Canadian programs. And the multi-million dollar Rosenstiel Basic Medical Sciences Research Center has attracted some of the top scientists in the world to probe into areas associated with the study of heart disease, immunology and cancer.

A Brandeis education encourages personal fulfillment, but only within the framework of social responsibility. Equipped by a liberal arts education, the individual sees reality as a whole with many intricately connected parts. That individual rejects the idea that there is only one truth, one perspective, one redeeming set of values. Study of the liberal arts is a time of inquiry, honest skepticism, and evolution of the intellect. Paradoxically, a liberal education — despite its lack of specialization — becomes sound preparation for a world that constantly makes old learning obsolete.

Brandeis, therefore, attaches prime importance to the liberal arts curriculum. It is designed to offer full academic opportunities for those students planning to pursue graduate or professional studies, as well as those whose educational objective is the baccalaureate degree.

The Graduate School of Arts and Sciences

The Graduate School of Arts and Sciences is designed to educate broadly as it trains professionally. It offers courses of study leading to the master's and doctoral degrees. Graduate areas include anthropology, biochemistry, biology and photobiology, biophysics, chemistry, classical and oriental studies, comparative history, Jewish communal service, English and

American literature, history of American civilization, literary studies, mathematics, music, Near Eastern and Judaic studies, physics, politics, psychology, sociology, and theater arts.

For full information, see the Bulletin of the Graduate School of Arts and Sciences.

Rosenstiel Basic Medical Sciences Research Center

The Lewis S. Rosenstiel Basic Medical Sciences Research Center was made possible in 1968 through the gift of the late Lewis S. Rosenstiel, who was a Brandeis Fellow. The Center has established research programs in the basic medical sciences embracing work in biochemistry, biology, chemistry, microbiology, physics, biophysics and immunology. Staff members are jointly appointed to the Brandeis faculty basic science departments. The Center invites participation of distinguished scholars and medical scientists, offers hospitality to younger researchers at the undergraduate and fellowship level, sponsors symposia and colloquia and underwrites scholarly publications.

The Basic Medical Sciences Research Center contains sophisticated scientific equipment and facilities. Through cooperative programming, both with departments at Brandeis and in the Boston area, the Center has broadened the scope of basic medical science research offerings at Brandeis. Grants from such agencies as the National Science Foundation, National Institutes of Health, and American Cancer Society, among others, support research programs in the Rosenstiel Center.

The Rosenstiel Center sponsors the annual presentation of the Lewis S. Rosenstiel Award, given to recognize distinguished work in basic medical research. Created in 1971 to also honor Mr. Rosenstiel, the award consists of a handsome bronze medallion and a stipend of $10,000.

The Florence Heller Graduate School for Advanced Studies in Social Welfare

The Heller Graduate School, from its inception in 1959, has developed a multidisciplinary approach to the study of social policy issues. The faculty represents a broad spectrum of the social sciences and related social welfare professions and includes some of the nation's most respected experts in the major human services areas: gerontology, health policy and planning, long-term care, income maintenance, employment, mental health, developmental disabilities, alcohol abuse, family and children's services.

The Heller School offers both a master's degree in Human Services Management and a doctoral program in Social Welfare. The former prepares graduates for middle and upper-level management careers in the public, private, and non-profit sectors; the latter trains students for positions in policy, planning, administration and research.

Candidates for both programs are selected on the basis of their demonstrated scholastic achievements, the nature and extent of their professional experience, and the compatibility between their career goals and the Heller School's educational programs.

To receive the doctoral degree, a student must complete a minimum of 14 semester courses for those entering with a master's degree in a relevant area, and 18 for students not having an advanced degree. Doctoral candidates must satisfactorily complete a written qualifying examination which tests students' mastery of the School's core curriculum. Additionally, each student must take an integrative policy analysis seminar, demonstrate reading comprehension in a foreign language, and submit an acceptable doctoral dissertation.

Students seeking a master's in Human Services Management must complete at least 12 courses, including six required core courses, and a management laboratory project. Most students complete the program within a 12 month, three-semester period, beginning in June and ending in May. Part-time studies are possible and a 15 month program is available for highly qualified candidates who have had limited professional experience.

The School conducts an active policy-oriented research program on a wide range of health and welfare issues. Four research centers anchor a variety of projects that are often interdisciplinary in character and involve collaborative activity between faculty members and advanced students. They are: the Center for Health Policy Analysis and Research, which conducts studies in three major health care areas — long-term care, health care quality and effectiveness, and regulation and reimbursement; the Levinson Policy Institute, which focuses on the long-term care needs of the elderly and disabled individuals and their families; the Center for Employment and Income Studies, which consolidates the research and training activities in the areas of employment training and income maintenance; and the Center for Aging and Income Maintenance, which focuses on public and private income maintenance programs for the elderly.

In addition, a variety of research projects and training grants are carried out in the fields of family and children's services, mental health, developmental disabilities, and alcoholism.

The School was made possible by an initial endowment from the late Mrs. Florence G. Heller of Chicago and is housed in the Florence Heller Building complex, which includes the Benjamin Brown Research Building. These buildings contain classrooms, offices and research facilities.

Further information is available in the Heller School catalog. Applications may be obtained from the Heller School Office (617) 647-2944.

Requirements for the Degree

Students are required to complete 32 semester courses and to be in residence for four academic years. The period of residence may be shortened through work given credit by other universities and programs recognized by Brandeis.

Students must, in any case, be in residence at Brandeis at least two academic years and complete a minimum of 16 semester courses here, exclusive of Brandeis Summer School.

The student is required to engage in a program of courses distributed through the three schools outside his or her field of concentration and to pursue a coherent program of study within a field of concentration. The distribution requirements embrace major elements in the four schools: Creative Arts, Humanities, Science, and Social Science.

English Composition Requirement

In the first year an entering student is required to satisfy the English Composition Requirement. This requirement may be met in a variety of ways: by exemption upon arrival based upon high school record, College Entrance Examination Board verbal aptitude, and English achievement scores; by successfully completing a Freshman Writing Seminar at Brandeis; by completing work elsewhere deemed to be the equivalent of our Freshman Writing Seminar; or, for some students participating in University Studies (see below), by earning a grade of A or A- in a course in the program of University Studies in the Humanities. Some students may

be required to take a non-credit course in preparation for enrollment in a Freshman Writing Seminar.

Foreign Literature Requirement

The Foreign Literature Requirement for the B.A. degree consists of the successful completion of one semester's study of representative works, fiction or nonfiction, from one non-English-speaking culture *in the original language.*

Incoming students who can demonstrate completion of work equivalent to this requirement before entering Brandeis by means of a score of 3, 4 or 5 on the Advanced Placement Test, or a score of 620 on a CEEB achievement test after three years of high school study, or by a satisfactory score on a placement test administered by the department, only at the time of initial matriculation at Brandeis, shall be deemed to have satisfied the Foreign Literature Requirement.

Students who satisfy the requirement by means of an Advanced Placement score shall be accorded, upon request, appropriate credit toward the Brandeis degree.

Students are urged to begin fulfilling the Foreign Literature requirement during their first year in residence at Brandeis. The number of semesters it will take to complete the requirement depends upon original placement level designation and level of achievement in preparatory courses. A new requirement will take effect in 1981-82.

Distribution Requirements (apply only to the Classes of 1981, 1982, and 1983)

Each student will be required to complete two semester courses in each of the schools outside his or her school of concentration. Alternatively, a student may substitute a Deans' Course, approved by the appropriate School Council, for one of the two semester courses in any or each of the other schools.

Courses numbered in the 90's will not satisfy the distribution requirements.

University Studies (apply to the Class of 1984 and subsequent classes)

Beginning this year a program in University Studies supersedes distribution requirements. The University Studies program is an attempt to bring greater coherence and purpose to general education, and to build upon the strengths of the faculty. Its requirements are as follows:

a. All students must complete one semester course from Humanities Step I and one semester course from Humanities Step II, normally in that order.
b. All students must complete one semester course from the History Program.
c. All students must complete two semester courses from the Creative Arts Program, not more than one of which may be in Theater Arts.
d. All students must complete one of the following three options in the Program in Science and Mathematics:
    i. Science I: Two semester courses in Biology, Chemistry, Physics, or Biochemistry, including either two courses in one department, or one course in each of two departments.
    ii. Science II: One semester course in Physical Science or Chemical Science and one semester course in Biological Science or Biochemical Science.
    iii. Science III: One semester course in Mathematics or Computer Science and one

semester course from any of the offerings listed in Science I and Science II.

e. All students must complete two semester courses in the Social Sciences Program.

The Committee on Academic Standing will resolve individual problems that may arise during the transition from a system of distribution requirements to the system of University Studies.

Other Freshman Requirements

Freshmen who feel that the placements in specific courses which have been assigned to them at registration are not appropriate should consult the advising chairman of the department concerned.

Elective Courses

A freshman may not enroll in courses numbered 90 or above unless he or she presents to the Registrar the written consent of the instructor in the course, the chairman of the department, and the faculty adviser, or is placed in a higher numbered course in accordance with existing University procedures.

Physical Education

Every freshman must satisfy the Physical Education requirement unless exempted. These requirements are in addition to the 32 required courses for graduation, and consist of two hours per week in class for two semesters and a required swimming test. All physical education classes are coed. Included in the program are activities such as flag football, basketball, volleyball, bowling, tennis, golf, badminton, softball, swimming, squash, karate, fencing, body mechanics, folk dancing, cycling, ice skating, figure skating, coaching courses in basketball, baseball and soccer plus a course in basketball officiating.

Upperclassmen who have completed their physical education requirement may elect to take additional P.E. courses.

Concentration Requirements

General Requirements

To obtain a bachelor's degree in the College of Arts and Sciences, students must complete the requirements of a field of concentration. Before the end of the freshman year each student will choose an intended field of concentration after consultation with a faculty adviser in that department. Entering students who have reached a tentative decision regarding their future field of interest should elect the basic introductory course in this area in their freshman year and cover more of the groundwork in the elective courses of their sophomore year.

Certain departments permit qualified students to substitute a limited number of related courses in other fields for their concentration requirements. Such an option would permit a student to pursue an area of study not represented by a single department. This program is open only to students able to present a purposeful and coherent course of study. Before approval, individual requests are subject to rigorous examination by the student's department. Students should consult individual departmental listings.

Independent Concentration

In choosing a concentration, a student may propose a program that combines academic work in several departments. The proposal requires the support of at least two departments and of one member of each supporting department who will agree to serve on the student's Concentration Committee.

Students who wish to develop a proposal for an independent concentration should consult the Office of the Dean of the College.

Completion of a Field of Concentration

To enroll in courses fulfilling his or her concentration requirements, a student must have received a C minus or better in prerequisite courses.

A 2.0 (C) average is normally required in courses offered for completion of requirements for concentration.

Degrees With Honor

Students whose grade point average at the end of the junior year is 3.0 or above in their field of concentration may petition the department concerned for permission to work for honors in their field of concentration. Departmental distinction is awarded by each department or interdepartmental committee. The levels of distinction are "honors," "high honors," or "highest honors."

The awards of *cum laude* and *magna cum laude* will be based on a grade point average set by the faculty.

The award of *summa cum laude* will be based upon a grade point average set by the faculty *and* on the award of distinction in the field of concentration.

In addition, the Schools of Science and Humanities require an average of 2.0 in all nonconcentration courses.

School of Creative Arts

Requirements for concentration in each department are listed on the pages indicated.

Page

1. Fine Arts 92
2. Music 113
3. Theater Arts 140

Candidates for honors must have the approval of the appropriate department.

School of Humanities

The School of Humanities offers the undergraduate a systematic introduction to our literary and philosophical heritage. Requirements for concentration and honors are listed on the pages indicated.

Page

1. Classical and Oriental Studies 77
2. Comparative Literature 81

3. English and American Literature 87
4. English and Classics 91
5. French Language and Literature 95
6. Germanic Language and Literature 97
7. Italian Language and Literature 104
8. Linguistics 109
9. Near Eastern and Judaic Studies 116
10. Philosophy and History of Ideas 121
11. Russian Language and Literature 133
12. Spanish Language and Literature 139

School of Science

The School of Science provides the basic scientific training to qualify students for entry into graduate school or for work at the intermediate level in their scientific fields. Students are encouraged to take such courses outside the School of Science as will best broaden and further their intellectual growth. Requirements for concentration are listed on the pages indicated.

Page

1. Biochemistry 70
2. Biology 72
3. Chemistry 74
4. Computer Science 83
5. General Science 96
6. Mathematics 110
7. Physics 125

School of Social Science

Requirements for concentration are listed on the pages indicated.

Page

1. African and Afro-American Studies 62
2. American Studies 64
3. Anthropology 67
4. Economics 84
5. History 100
6. Latin American Studies 106
7. Politics 127
8. Psychology 130
9. Sociology 135

A student in the School of Social Science who is a candidate for a degree with honors will, in addition to the designated requirements for the several fields, also enroll in senior research (99). Candidates for honors must have the approval of the appropriate department. One reader of a senior thesis must come from outside the department of concentration.

Summer School Credit

A student may attend daytime summer schools conducted by accredited colleges and universities, for credit toward the bachelor's degree. In order to be assured that credit will be granted upon satisfactory completion, approval should be obtained in advance from the academic department concerned, the student's faculty adviser, and the Committee on Academic Standing. Normally, courses must be taken at summer programs of at least six weeks in duration; however, the Committee on Academic Standing may approve for credit selected programs with a minimum of 37 contact hours. For summer work taken at institutions other than Brandeis, only honor grades (A or B) will receive credit. A student may earn credit for no more than three semester courses in one summer, nor more than six semester courses toward the degree.

B.A. — M.A. Program

The four year B.A.-M.A. program is designed to enable a few exceptional or gifted undergraduates to earn two degrees simultaneously during their period of study at Brandeis University.

Any department offering graduate study is eligible to offer a four year B.A.-M.A. program. At present, participating departments are: Biochemistry, Biology, Chemistry, Classical and Oriental Studies, Mathematics, Near Eastern and Judaic Studies, Physics, Politics, and Theater Arts.

Requirements for the B.A. degree, defined by the College of Arts and Sciences, remain unaffected by participation in this program. A student will be eligible for the simultaneous award of the B.A. and M.A. if, while completing undergraduate requirements, he/she can fulfill a minimum of three years residence on campus, one of which must be study at the graduate level; completion of an appropriate number of courses in the "100" series or above; and completion of all other departmental and university requirements that apply to earning a master's degree in the chosen department. Students should consult the Graduate School of Arts and Sciences for additional details.

Preprofessional Education

On the premise that a liberal arts education is the best preparation for professional training, the College of Arts and Sciences does not recommend highly-specialized courses for preprofessional students. And since the Brandeis curriculum does not develop patterns of courses with specific vocational goals in mind, Brandeis students receive a broad education in the liberal arts and sciences to prepare them for further study at the graduate level.

Architecture

Architectural schools are looking for solid experience in any field of concentration, and a fine arts concentration is not required. There are several kinds of courses, however, which should be taken: basic calculus and basic physics; basic design, life drawing, and as many other fine

arts studio courses as practicable; courses in architectural history; principles of urban studies and other urban studies courses, if feasible.

In addition, past experience indicates that students should prepare an art portfolio, consisting of studies prepared in conjunction with basic design or another studio course. Finally, summer employment in architectural offices, gained on the student's own initiative, remains useful.

Business and Management

Brandeis is rich in the kinds of undergraduate experiences which are useful in preparation for a career in management, whether in national and regional business firms or in such fields as health, education, theater, museums and athletics. Although the preparation for graduate study in business and management is not rigidly prescribed, students should consider a few guidelines.

Modern managerial sciences draw upon the fields of economics, mathematics, computer science, psychology and sociology. No student will be equally strong in all of these areas. Personal interest and ability should guide the student in the selection of a major field of study and of elective courses which are supportive of a career goal in management. Graduates in economics who have attended business schools view their Brandeis training positively. They find the analytical skills developed in economics to have been particularly helpful in business school. To meet these needs and interests the Economics Department has developed a list of courses which are especially appropriate preparation for graduate schools of management.

Law

Most law schools advise undergraduates to concentrate in that which interests them, since the later specific legal training will build on the advantages of a sound liberal arts education.

Though there is no prescribed program of study for prospective law school applicants, many concentrate in such social sciences as politics, economics, history and American studies. Since law schools tend to look for evidence of a rigorous schedule of courses and high verbal competence, a background in logic, the natural sciences and English is desirable. Although courses from the Legal Studies program might familiarize the prospective law student with law school material, it is not necessary that such courses be taken as professional preparation.

Prospective applicants to law school should consult the Office of Career Planning for law school catalogs and Law School Admissions Test (LSAT) registration materials. Also available in that office is the Brandeis Pre-Law Handbook which includes a survey of the experiences of recent Brandeis alumni in seeking admission to law school, as well as a more detailed description of law school application procedures. Several members of the faculty serve informally as advisers to prospective school applicants.

Medical and Dental

Medical and dental schools seek candidates with a strong foundation in the natural sciences, highly developed communication skills, and a solid background in the social sciences and humanities. They limit their absolute requirements for admission to a relatively few courses, in order to allow students the latitude for developing individualized undergraduate programs of study. This means that students may concentrate in any field of interest to them. As long as a

student does well in the required courses, his or her field of concentration is not a significant factor in medical (or dental) school admission.

Virtually every medical and dental school in the country requires a year of biology, a year of general chemistry, a year of organic chemistry and a year of general physics — all with laboratory. Most schools also require a year of college English. A few schools have additional requirements, e.g., a foreign language, a social or behavioral science course, or an additional biology or chemistry course. Mathematics courses are either required or strongly recommended by a substantial number of schools. Since Brandeis students generally take calculus as a prerequisite for physics, they satisfy the most stringent mathematics requirement.

The following Brandeis courses satisfy the basic requirements.

1) General and Inorganic Chemistry

   Lecture: Chemistry 11a or 15a, and 31b.

   Laboratory: Chemistry 18a or 19a, and 38b.

2) Organic Chemistry

   Lecture: Chemistry 21b and 22a.

   Laboratory: Chemistry 27b and 28a.

3) Physics

   Lecture: Physics 10(a & b) or 11(a & b).

   Laboratory: Physics 18(a & b) or 19(a & b).

4) Biology

   Lecture: Biology 20a & 21b, or Biochemistry 21a and a semester course in biology.

   Laboratory: Biology 12(a & b).

The sequence in which the required courses can be taken is not entirely flexible. For example, one semester of general chemistry is a prerequisite for both biology and organic chemistry; calculus is a prerequisite or corequisite for physics. A suitable academic schedule *for students with good high school preparation in science and mathematics* includes calculus and general chemistry first, followed by biology and organic chemistry, and in the junior year physics. Chemistry or physics concentrators may wish to take physics before biology. This schedule permits students to complete the requirements by the end of their junior year, at which time they are ready to take the medical or dental school admissions test, and to begin the application process. Other schedules are possible. *Students with high school deficiencies in science and mathematics* should initially carry only one mathematics or science course each year. Information concerning scheduling, as well as other aspects of preparation for medical and dental education, is available through the Office of the Dean of the College, which is responsible for all advising.

The medical and dental programs at Brandeis are more than simply a collection of required courses. In the sophomore year students are assigned a faculty premedical adviser, who is a member of the Board of Premedical Advisers. Advisers provide continuing personal guidance to students on academic and preprofessional matters throughout the next three years, aid in the application procedure, and compile a letter of recommendation for each student.

On the national scene the overall chances of admission to medical school during the next few years are only about 1 in 2.5. Brandeis applicants have been consistently much more successful than the average. Competition for entry into dental school is less fierce.

Preparation for Teaching

While the University does not have a field of concentration in education, it offers a program which fulfills Massachusetts' requirements for teacher certification and at least partially fulfills those of other states as well. Students interested in preparing for a career as a teacher in primary or secondary schools should inform themselves of certification requirements in the state where they plan to work and should consult the faculty adviser on education.

Study Abroad

Brandeis University permits its students to enroll in specified foreign programs that provide an academically sound course of study which will enrich and enhance the American education.

Students may receive credit toward their Brandeis degrees through participation in educational programs abroad which have been approved by the Committee on Academic Standing on the recommendation of the Office of International Programs. This Committee may permit qualified students to enroll in overseas programs of American universities, or in special cases to pursue individual programs of study at foreign universities.

The Committee has recognized for credit toward the Brandeis degree, junior year programs in over 20 countries in Europe, Asia and Latin America, sponsored by such universities as Tufts, Smith, Syracuse, Hamilton, Sweetbriar, and N.Y.U. as well as the Institute of European Studies and the Council on International Educational Exchange. In addition, students have received Brandeis credit for study in special programs such as those offered by universities in England, Israel and Scotland.

The Office of International Programs provides counseling services for Brandeis undergraduate and graduate students who seek to enrich their education through a period of study abroad. It also maintains a resource library of material on available programs. The Office provides information and assistance in obtaining foreign study grants available through the Fulbright, Rhodes, Watson, D.A.A.D., Marshall, and other scholarship and fellowship programs.

Special Brandeis Grants

Outstanding students may apply for grants from two special Brandeis programs to aid them in completing their program of study abroad. Both programs are competitive, and awards are made on the basis of academic excellence and financial need.

The Abram L. Sachar International Fellowship Program

The Abram L. Sachar International Fellowship Program was instituted in 1969 by the Trustees of Brandeis University in tribute to the twenty-year incumbency of the University's first president. It is a highly selective program that supports Brandeis graduate and undergraduate students abroad during a period of study or research complementary to their education here.

The program operates on a variety of levels. For example, a graduate student, after passing the qualifying examinations, may pursue advanced research abroad. A graduating senior may spend a year of study abroad as a culmination of the Brandeis experience. A well-qualified undergraduate who plans a period of study at a foreign university or program which has offerings not available at Brandeis is also eligible for a Sachar grant.

Eligibility requirements for applicants include a high level of scholastic achievement, financial need as indicated by University records and outstanding intellectual competence or creative ability. Application forms are available at the Office of International Programs, Sachar International Center.

Saval-Sachar Summer Research Scholarship Program

The Saval-Sachar Summer Research Scholarship Program was created by Maurice H. Saval of Boston, a Fellow of the University, in honor of Abram L. Sachar, Chancellor of the University.

The program enables qualified Brandeis undergraduates to conduct research for their senior honors theses during the summer between their junior and senior years in any area of the world outside the United States. Scholarships will be scaled according to financial need. Applications are to be directed to the Office of International Programs and will be evaluated and processed by a special faculty committee.

The Jacob Hiatt Institute in Israel

Brandeis University, through its Jacob Hiatt Institute, offers to students from Brandeis and other American universities a program of study in Israel. Since the Institute was founded in 1961 by Brandeis Trustee Jacob Hiatt of Worcester, Mass., more than 600 juniors and seniors from more than 50 institutions have participated in the program, which emphasizes the social sciences.

Hiatt House is located in one of Jerusalem's most attractive residential areas, convenient to the business center and the historic Old City. Classrooms, library, offices, dining room and student lounge are all under one roof. To facilitate contact with the community, students are quartered in rooms rented in households in the vicinity.

Hiatt students, who spend the fall semester in Israel, take an integrated program of four courses taught primarily by faculty from Israeli institutions of higher learning. Instruction is in English.

The Hiatt Institute is open to students who will have satisfactorily completed at least four semesters of work in an accredited college or university prior to departure. Brandeis students may enroll during their sophomore year. Applicants should have maintained at least a B average. Prior knowledge of Hebrew is not required, for the program includes an intensive Hebrew language course. The applicant should, however, have taken at least one introductory course in the social sciences, preferably in political science or sociology.

A University-appointed director administers the Hiatt Institute in Israel. The fee, which includes tuition, intra-Israel travel, and room and board, is $3,000. Financial aid is available, usually in the form of scholarship-loan combinations, on the basis of financial need and academic performance.

Brandeis-ASOR Archaeological Semester

A new program of archaeological study in Jerusalem is now offered to students from Brandeis and other American universities during the spring semester. The program is jointly sponsored by Brandeis University, through the Jacob Hiatt Institute, and by the American Schools of Oriental Research (ASOR), an association of 150 educational institutions that serves as the principal American organization pursuing archaeological research in the Near East.

Students will follow a program of study of four courses in the disciplines of archaeology, history, anthropology, language, and allied fields, taught in English by Israeli and ASOR professors. Participants will also have the opportunity to work intensively on an excavation in progress for an extended period of time and to receive on-site instruction in archaeological history and methodology. Students will have the full use of the facilities of the Hiatt Institute while in Jerusalem.

The semester is open to college juniors who have maintained a B average. Prior knowledge of archaeology is not required. Graduate students are welcome to participate in the program but must make suitable arrangements for transfer of credit with the home institution in advance. The program cost, covering tuition, room, board, and intra-Israel travel, is $3,200.

Further information on the programs may be obtained from the Office of International Programs.

Foreign Students

Brandeis University has traditionally welcomed students from abroad to its campus. The Sachar International Center, which houses the Office of International Programs, was built in honor of Abram L. Sachar and his wife, Thelma, and their decades of dedication to international educational exchange as a road to better international understanding.

The staff of the Office of International Programs serves as counselors and advisers to foreign citizens at Brandeis, including graduate and undergraduate students and foreign faculty. It aids the students and faculty in fulfilling the legal procedures required by the United States Immigration and Naturalization Service, i.e., obtaining extensions of stay, special permits to work, and the proper documents for leaving and re-entering the country. The office coordinates the Brandeis host family program and provides assistance and referral services throughout the year.

Wien International Scholarship Program

The Wien International Scholarship Program, created in 1958 by the Lawrence A. and Mae Wien Fund, is designed to further international understanding, to provide foreign students with opportunities for study in the United States, and to enrich the intellectual and cultural life of the Brandeis campus.

The Program permits the University to offer several undergraduate awards each year to outstanding students from abroad. The scholarships cover the cost of tuition and fees and, based on financial need, may include room and board, books and/or a maintenance allowance. In no case will a scholarship awarded to a foreign student include funds for travel expenses. Awards are made for a single year to degree candidates and may be renewed upon application to The Wien International Scholarship Program Committee. The Committee's decision in these cases is final.

All applicants must qualify for advanced standing at Brandeis through previous university work or higher secondary education.

Undergraduate applicants may also be accepted as Special Students who apply for this "year abroad" in order to enhance and complement work taken in their own countries. These students return to their home universities when their year at Brandeis has been completed.

All applicants must have a thorough knowledge of the English language inasmuch as all students study within the regularly organized curriculum.

Inquiries concerning the program should be addressed to the Office of International Programs, and should contain a brief resume of the applicant's scholastic background and field of interest.

In general, funds for foreign students are extremely limited beyond Wien International Scholarships.

Continuing Studies

Summer School

The Brandeis Summer School offers students a selected number of undergraduate courses in two five-week sessions. The program has been deliberately limited in size to ensure the unique qualities that have been the hallmark of the Brandeis experience.

The student has the opportunity to enroll in courses from each of the four schools to meet distribution requirements, accelerate individual programs of study, work towards a double concentration, or take enrichment courses. These courses may not be used to meet the minimum residence requirements. The average summer program course has a small student enrollment, generating a rigorous but informal atmosphere for teacher-student interaction. For full information, please see the Summer School bulletin.

Adult Education

The Adult Education program at Brandeis provides a select number of college-level courses in a variety of fields for the Greater Boston community. Most courses consist of eight two-hour classes, many of which are taught by full-time Brandeis faculty, on a non-credit basis. Most are evening courses with a few scheduled during the day.

Special Scholarships and Fellowships

Doris Brewer Cohen Undergraduate Awards (1972)

Established in memory of Doris Brewer Cohen, these awards are made annually to upperclass undergraduates who have demonstrated exceptional academic achievement, to encourage and enable recipients to undertake original investigations or study in collaboration with a member of the faculty of Brandeis or another university.

Joseph and Bessie Gerber Glass Prelaw Endowed Scholarships (1972)

Granted through the generosity of Mrs. Joseph Glass of Mt. Kisco, N.Y., a Fellow of the University, this gift offers tuition scholarships to worthy and deserving undergraduates who have chosen the study of law and the legal profession as their postgraduate goals.

Frances L. Hiatt Memorial Scholarship Endowment (1980)

Established by Mr. and Mrs. Sigmund Wahrsager of New York City in memory of Mrs. Frances L. Hiatt, the beloved wife of Mr. Jacob Hiatt, Worcester, Mass., former chairman of the Board of Trustees, Brandeis University. The income from this scholarship fund provides tuition assistance to worthy and deserving students.

Lemberg Scholarship Endowment (1956)

Established by Samuel Lemberg, a Brandeis Trustee, the endowment is used to provide scholarships to needy undergraduates. Preference in the awarding of scholarships is given to students who have completed at least two summers of participation in the Usdan Center for the Creative and Performing Arts at South Huntington, L.I., N.Y.

Joe and Emily Lowe Foundation Scholarships in Fine Arts (1976)

Granted by the Joe and Emily Lowe Foundation, Inc., of New York City, through the interest of David Fogelson and his wife, Gertrude, a member of the Brandeis University Creative Arts Awards Commission, these scholarships support gifted young people concentrating in the field of fine arts.

Stephen P. Mugar Scholarship Endowment Fund (1979)

Established by family, friends and associates of Mr. Mugar of Belmont, Mass., on the occasion of his receiving the Brandeis Distinguished Community Service Award, this fund will support needy and deserving students. Mr. Mugar is a Fellow of Brandeis University.

Harry and Mildred Remis Scholarship and Fellowship Fund in the Creative Arts (1973)

Established by Brandeis Trustee and Mrs. Harry Remis of Boston, Mass., this endowment offers assistance to students who have demonstrated promise and potential in fine arts and music. Remis Awards are given to undergraduates at the end of their junior year to facilitate summer study at centers of art and music either in this country or abroad. The Harry and Mildred Remis Graduate Fellowships in Music are offered to qualified graduate students seeking to pursue careers in musical theory and composition and in the history and literature of music. The Fellowships are normally given to candidates who have completed one year of graduate work, on the basis of demonstrated excellence in academic areas and general musicianship, on creative potential and promise, and on financial need.

Rogoff Foundation Trust (1964)

The Rogoff Foundation Trust, established by the trustees of the Rogoff Foundation, Inc., provides support for scholarships and fellowships in sciences that are basic to pre-medical and medical education, particularly the life sciences. Selection is limited to students with records of high academic achievement.

Maurice H. and Anna B. Saval Scholarship for Soviet Emigre Students (1978)

Established by Mr. Saval of Boston, this fund offers scholarship support to undergraduate Soviet emigre students. Mr. Saval is a Fellow of Brandeis University.

Lew and Edie Wasserman Scholarship Fund (1978)

This scholarship fund, the gift of Mr. and Mrs. Lew R. Wasserman of Beverly Hills, California, provides scholarship aid to students from financially hard-pressed, middle-income families.

Special Programs

Jack I. and Lillian Poses Creative Arts Awards

The Brandeis University Creative Arts Awards Program was established by the University in 1956. The awards, currently underwritten by Brandeis Trustee and Mrs. Jack I. Poses of New York City, are presented annually in the areas of theater arts and film, music and dance, literature, and fine arts. In each of these fields, a Medal Award is bestowed upon successful artists in recognition of a lifetime of distinction in an artistic field. Expert juries are appointed annually in each of the fields to judge the competition. In addition, the Creative Arts Awards Commission presents an award for Notable Achievement in the arts from time to time. In 1980, the Medal winners were: Suzanne Farrell, Philip Guston, Edgar Bowers, Lanford Wilson, and Betty Parsons.

American Jewish Historical Society

In an established pattern of learned societies which often elect to locate at colleges and universities, the American Jewish Historical Society's headquarters and library are on the Brandeis campus. A separate and autonomous organization, the American Jewish Historical Society provides a focus for scholarly research, symposia, exhibits, and a common meeting ground for interested undergraduate and graduate students. The Society is an archival resource for Greater Boston's many libraries, museums, colleges, and universities. Its site near both the University library and Judaic center was made available by Brandeis. The building funds were provided by the late Lee M. Friedman, a former president of the Society, attorney, and Boston resident.

Lowell Institute Cooperative Broadcasting Council

Brandeis University is a member of the Lowell Institute Cooperative Broadcasting Council, which sponsors WGBH-FM, Boston's educational radio station, and its television affiliate, WGBH-TV. Brandeis, along with Boston College, the Boston Symphony Orchestra, Boston University, Harvard University, Lowell Institute, MIT, the Museum of Fine Arts, the New England Conservatory of Music, Northeastern University, Museum of Science, Simmons College, Tufts University, University of Massachusetts, and Wellesley College makes its teaching facilities available for use by both outlets.

Patrons and Friends of the Rose Art Museum

Through the generosity of the Patrons and Friends of the Rose Art Museum, the University mounts each spring a major exhibition featuring an important contemporary artist. In 1978-79 the Patrons and Friends sponsored an exhibition entitled "Frank Stella: Metallic Reliefs," an exhibition *The Boston Globe* described as one that "may well constitute the outstanding contemporary art event of the season." In 1979-80 the show was "Mel Ramos: A Twenty-Year Survey." Among additional exhibitions which appeared at the Rose Art Museum were "John Walker: Paintings/Don Nice: "The Peaceable Kingdom" and "Beasts and Demons"/ Selections from the Permanent Collection;" "Three-Dimensional Possibilities;" "Rocks, Trees, Clouds and Water: The Art of Hung Hsien/Artists-Research-Technology: Offset Lithography/Jewish Ceremonial Objects;" and "American Art of the Seventies: Mavericks," part of a major, multi-museum restrospective funded by the National Endowment for the Arts.

Edith Barbara Laurie Theater Arts Trust Fund

Established by Mr. and Mrs. Irving Laurie in memory of their daughter, the Edith Barbara Laurie Theater Arts Trust Fund aids in the support of the University's innovative theater arts program. The funds provided in this gift help to develop and strengthen the theater arts curriculum and its frequent stage presentations.

Gersh and Sarah Lemberg Children's Center

The Lemberg Children's Center launched its parent-cooperative day care program in the fall of 1975, a contemporary outgrowth of the nursery school concept established in 1961 through the generosity of Brandeis Trustee and Mrs. Samuel Lemberg of New York City. The open classroom program at the Center accommodates some 32 preschool and kindergarten children in full and part-time schedules. Staffed by professional teachers working in conjunction with parents, the Center has informal ties with the University's Psychology Department and Education Program.

The Brandeis University Press

The Brandeis University Press is a member of the consortium known as The University Press of New England, which also includes Dartmouth College, the University of New Hampshire, the University of Vermont, Clark University, the University of Rhode Island, and Tufts University.

Among recent publications are *The Modernization of French Jewry: Consistory and Community in the Nineteenth Century*, by Phyllis C. Albert; *Images and Ideas in American Culture, Essays in Memory of Philip Rahv*, edited by Arthur Edelstein; *Kabbalah and Art*, by Léo Bronstein; and *The Model Country: José Batlle y Ordoñez* of Uruguay, 1907-1915, by Milton Vanger.

Initial support for the Brandeis Press came from gifts of Bern Dibner of Wilton, Conn. and Ben Zevin of Cleveland, Ohio, both Fellows of the University.

George and Charlotte Fine Endowment Fund

Created to supplement chamber music programs given under the auspices and direction of the Department of Music, the Fund presents annually the Irving Fine Memorial Concert, in honor of the late composer and Brandeis professor of music. The concerts are performed by members of the Department of Music and visiting artists and include in each program a work by Professor Fine.

Ziskind Program for Continuing Education in Jewish Studies

The Jacob Ziskind Charitable Trust of Boston has provided funds to allow the University to develop continuing educational opportunities in Jewish Studies. Both lay leaders and professionals in Jewish communal service participate in seminars, colloquia, and regular classroom opportunities.

Endowed Schools

Crown School of Graduate Studies in American Civilization

The Irving and Rose Crown School of Graduate Studies in American Civilization was established by the generosity of Brandeis Fellows Irving and Rose Crown. Its primary objective is to attract and support gifted students in their work toward the Ph.D. in the History of American Civilization.

In order to meet the public service objective of the school, a Crown Fellowship award is occasionally made to special students both here and abroad — drawn from the Foreign Service, the media, and other important facets of public life — who would benefit from participation in graduate studies in the School.

Strengthened by the achievements of Crown Fellows of recent years, the Crown School contributes to the deeper understanding of the American past and present, thereby helping to shape the nation's future.

Danielsen School of Philosophy, Ethics, and Religious Thought

The Albert V. Danielsen School of Philosophy, Ethics, and Religious Thought was made possible through a gift from Dr. Danielsen, a Fellow of the University, from Wellesley Hills, Mass.

The School includes the Department of Philosophy, which places traditional emphasis on logic, epistemology, metaphysics, value theory and the history of philosophy. Added to the two fully endowed chairs of philosophy in the School is the Albert V. Danielsen Chair in Christian Thought.

The Danielsen School thus hopes to encourage the advancement of philosophical thought in the context of contemporary issues, following the broadest scholarly and interdisciplinary approaches in an age of ecumenism and imperative social need.

Fierman School of Chemistry

The Harold and Minnie Fierman School of Chemistry, created through a benefaction from the late Brandeis Trustee Harold L. Fierman, incorporates graduate and undergraduate programs, including research activities, lecture programs and colloquia.

At the undergraduate level the curriculum is highly diversified, including basic courses in analytical, organic, physical, and inorganic chemistry.

At the graduate level, M.A. and Ph.D. candidates pursue advanced studies and research projects in synthetic organic and organometallic chemistry, physical organic chemistry, structured inorganic chemistry, quantum chemistry, photochemistry, enzyme reactions, chemical physics, and laser chemistry.

The School has been aided, in part, by grants from the National Institutes of Health, National Science Foundation, Energy and Research Development Administration, Research Corporation, and the Petroleum Research Foundation. Research conducted under these agencies has been published in over 700 papers in leading professional journals.

Fisher School of Physics

The Martin Fisher School of Physics, established through a gift from the late Martin A. Fisher of New York City, a Fellow of the University, encompasses both theoretical and experimental physics. The Fisher School incorporates the graduate and undergraduate programs in physics and also provides the setting for lectures and colloquia in physics. Scholarship and fellowship assistance provided by Mr. Fisher enhances the teaching and research at the undergraduate, graduate, and postdoctoral levels.

The School's undergraduate program ranges from introductory courses in classical and modern physics, computer sciences, and astronomy to advanced courses in atomic and nuclear physics; classical, continuum and statistical mechanics; quantum mechanics; nuclear, solid state, and mathematical physics. M.A. and Ph.D. programs include courses in astrophysics, high energy physics, plasma physics, quantum theory of fields, solid state physics, and general relativity. Experimental and theoretical research is carried out in high energy physics, solid state physics, properties of condensed matter, quantum theory of solids, and quantum field theory.

Grants from such agencies as the National Science Foundation and the Atomic Energy Commission, among others, support research programs in the Fisher School. The Fisher School also provides research opportunities for a large number of postdoctoral fellows.

Kutz School of Biology

The Milton and Hattie Kutz School of Biology was made possible through a gift from the estate of the late Hattie Kutz of Wilmington, Del., a Fellow of the University. The School encompasses the University's undergraduate and graduate biology departments. The biology curricula present a comprehensive body of courses that advance from fundamental studies to more complex areas, with special attention given to new discoveries and the results of current experimentation.

Students are offered a balance between traditional background in biology and the thorough discussion of new knowledge. They are encouraged to engage in original research and independent study. The biology program also provides research and teaching opportunities for a large number of postdoctoral fellows.

A major portion of the governmental, industrial, and private research grants awarded to the University is devoted to varied projects in biology and health sciences. Distinguished scientists appear frequently at colloquia and lectures to explain their investigations.

Lown School for Near Eastern and Judaic Studies

Created through the generosity of the late Brandeis Trustee Emeritus Philip W. Lown, the Lown School of Near Eastern and Judaic Studies encompasses an intensive teaching and research program in ancient and modern Jewish thought, history, culture, and issues, offered by both the undergraduate and graduate departments of Near Eastern and Judaic Studies. The University has assembled an array of distinguished scholars who offer an extremely broad range of programs designed to prepare students for scholarly careers or for communal service. Areas of scholarship within the general field of Near Eastern and Judaic Studies range from the history, languages and philosophies of the ancient Near East to the modern Near East and contemporary Jewish studies.

The School includes the Benjamin S. Hornstein Program in Jewish Communal Service, organized for the purpose of further research and seminars dealing with contemporary issues

and for providing graduate education for students interested in professional careers in Jewish communal service and education.

The Lown School of Near Eastern and Judaic Studies cooperates closely with the American Jewish Historical Society, whose headquarters building on the Brandeis University campus was completed during 1968.

The Center for Modern Jewish Studies is also part of the Lown School. Created as the country's first such agency devoted to the study of Jewish life in America today, the Center engages in research and teaching in three related areas: population of American Jewry, Jewish identity and the Jewish family.

Poses School of Fine Arts

The Poses School of Fine Arts, established through a gift from Brandeis Trustee and Mrs. Jack I. Poses of New York City, embodies the broad undergraduate curriculum in the fine arts. The undergraduate program in fine arts provides a substantial area of studies in the form and meaning of art from antiquity to the present day. The program stresses individual creativity and the varied techniques of the artist.

Swig School of Political Science

A generous benefaction from Brandeis Trustee Emeritus Benjamin H. Swig of San Francisco has established the Swig School of Political Science. The Swig School encompasses the University's Politics Department, including several endowed academic chairs established earlier through the efforts of Mr. Swig. Among these are: the Harry S. Truman Chair in American Civilization; the Earl Warren Chair in American Constitutional Studies; the Christian A. Herter Chair in International Relations; and the Adlai E. Stevenson Chair in International Politics.

Lectureships

Louis Dembitz Brandeis Memorial Lectures

The Louis Dembitz Brandeis Lectures, named in memory of the late Supreme Court Justice, trace their origin to the beginning of the University's life. Past lecturers have included Chief Justice Earl Warren, Archibald Cox, Justice William Douglas, Justice Felix Frankfurter, Judge Charles Wyzanski, Congressman Robert F. Drinan, Ramsey Clark, Justice Abe Fortas, and Simon H. Rifkind.

Harry B. Helmsley Lecture Series

Established in 1957 by a grant from the Harry B. Helmsley Lecture Fund, the series focuses each year on a different theme. In 1979-80 two lecture series were held. The fall series concentrated on "Jewish-Muslim Relations" and included guest speakers Solomon Goitein, Robert Sergeant, Leonard Binder, and Jacob Landau. The spring series was entitled "Women Within Judaism." Lecturers were Ann Lapidus Lerner, Hasia Diner, and Ruth Wisse. In addition, the Helmsley Dialogue Series was held to bring together leaders of the religious world. This year's topic was "Religious Roots for a Life of Social Commitment."

The Alexander L. and Fannie B. Shluger Memorial Lecture

The Shluger Memorial Lecture was established through the will of Mrs. Fannie B. Shluger. In 1979-80 the Shluger lecturer was Thomas Armstrong III, Director of the Whitney Museum of American Art, who spoke of "Mid-Life Crises: Patronage and Problems of the Whitney Museum of American Art at Age Fifty."

The Nathan Straus Lectureship Fund

Established by the late Nathan Straus, this lecture fund sponsors the Stephen S. Wise Memorial Lecture and the Abba Eban Lecture. In 1979-80 Arie Lova Eliav, Visiting Professor in the Center for International Affairs at Harvard University, gave a lecture entitled, "Israel's Future: A Blessing or a Curse."

The Martin Weiner Distinguished Lectureship Fund

The income from this endowment fund brings to Brandeis leaders in the fields of religion, government, international affairs, letters, science, and business. Weiner Memorial lecturers enrich the University's curriculum by participating in regular academic seminars and symposia, as well as University convocations and public events. Each department of the University is able to welcome to campus guests who are of particular interest to that department, and the University is also able to invite a wide range of people. In 1979-80 about 130 lecturers visited Brandeis through the generosity of this fund.

Included in that list are Judith Wechsler of the University of Massachusetts, whose film and lecture followed the exhibition of the Trustman Daumier Collection; Manouchehr Ganji, formerly Minister of Education in Iran, who lectured on "Human Rights in the Third World;" Marjorie B. Cohn of the Fogg Art Museum, whose lecture was entitled, "The Truth, the Whole Truth, and Nothing But the Truth: Art Forgeries;" and John D'Arms, Director of the American Academy in Rome, who spoke on "Roman Attitudes Towards Commerce and Trade." In addition, the University Committee on the Handicapped sponsored the play "As Others See Us."

The Eleanor Roosevelt Memorial Lectureship

Established by Mrs. Irvin Edelman in 1975-76, the Eleanor Roosevelt Memorial Lectureship honors the memory of one of the world's great ladies, a Trustee of Brandeis University from 1953-62, and a member of the Brandeis faculty from 1959-61. In 1979-80 the Roosevelt Lecturer was Helen Suzman, leader of the United Party in South Africa, who spoke on "Human Rights in South Africa."

The Sophie Davis International Fellow in Residence Program

This program brings to campus academics, scholars, and men and women of great distinction in public life, in the arts, in literature, and in journalism, who teach and lecture at Brandeis for a term. In 1979-80 the Davis Fellow was Ambassador Mordechai Gazit, formerly Israeli Ambassador to France.

Visiting Professorships

Jacob Ziskind Professorships

To implement its philosophy of education, the University brings to the campus distinguished academic figures from sister universities both in the United States and abroad who serve as Ziskind Visiting Professors. This program, made possible by the Jacob Ziskind Endowment Fund, enables the University to supplement its regular teaching staff with the presence of academicians drawn from other major streams of educational thought.

Fannie Hurst Fund for Visiting Professorships

Established in 1968 through the bequest of the late Fannie Hurst, the Fund supports distinguished visiting professors in the areas of creative writing and theater arts.

Shirley and Maurice Saltzman Artist-in-Residence Fund

Established in 1964, the Fund underwrites the incumbency of prominent visiting artists who work with and guide students majoring in the field of fine arts.

Admission to the University

The University selects new students each year on the basis of merit, admitting those individuals whom it believes to be best prepared, academically and personally, for the University's educational program and most likely to contribute to and profit from the life of the Brandeis community. Although it chooses a class varied in its interests, talents and experience, it uses no quotas of any kind — geographic, racial, religious or economic.

In its evaluation of candidates, the Admissions Office weighs evidence of accomplishment and development; school and teacher statements based on previous study and experience; relevance to the application of test results; and impressions gained through the application.

Admission Requirements for Freshman Candidates

To be considered for freshman admission, a candidate should be enrolled in a college preparatory course. Students planning to enter college before the completion of their secondary school programs, veterans or other persons with equivalency diplomas or special school backgrounds should write directly to the Dean of Admissions regarding their interest and experience.

An adequate course in preparation for Brandeis should include four years of English; three years of a foreign language, including study during the senior year whenever possible (two years each of two languages is acceptable but less desirable); three years of college preparatory mathematics (prospective science concentrators should present a year of advanced mathematics); at least one year of science (chemistry, physics or biology); and one year of history. The remaining courses should generally be in traditional college preparatory studies. It is recognized, however, that courses in the creative arts are of value to students intending to concentrate in these fields in college.

The Scholastic Aptitude and Achievement Tests of the College Entrance Examination Board are regarded by the Committee on Admissions as one of several factors in a candidacy and as a method of evaluating the qualifications of candidates from different schools and areas. All candidates must take the Scholastic Aptitude Tests and three Achievement Tests. It is *strongly* recommended that the candidate take the Achievement Tests in: (a) English Composition (preferably the ECT With Essay, given only in December); b) a foreign language; c) mathematics or science. Results of Scholastic Aptitude and Achievement Tests taken between and including January of the junior year and January of the senior year are preferred for consideration. We recommend, however, that all candidates take the SAT in their senior year in order to present the best possible testing results.

Full information concerning testing may be obtained from secondary school guidance counselors or directly from the College Entrance Examination Board, Box 592, Princeton, N.J. 08540; or Box 1025, Berkeley, Calif. 94707. The candidate should direct the Board to report scores to the Dean of Admissions.

Early Decision

Brandeis offers admission to qualified freshman candidates under its Early Decision Plan. This Plan is designed for those students who, after carefully and critically considering various college options, have decided firmly that Brandeis is their first choice. Early Decision candidates must sign a statement on the application indicating that they wish Early Decision consideration and that they will definitely enroll if admitted. Early Decision candidates may file

other regular applications with the understanding that these will be withdrawn if they are accepted on an Early Decision basis by Brandeis. All applications and supporting credentials for Early Decision must be received during the period November 1-January 1. Supporting credentials should include SATs and as many Achievement Tests as have been completed. Early Decision applicants will be notified within four weeks of the receipt of a completed application. Candidates not accepted under Early Decision will automatically be considered in the regular review period for the April 15 notification date. Further detailed information about the Early Decision Plan is contained in the admissions application.

Admission Requirements for Transfer Candidates

The Committee on Admissions welcomes applications from individuals whose promise and prior attainment is in keeping with the opportunity for a continuation of concentrated scholarly study at Brandeis. Whenever desired, applicants will be granted a conference with a faculty member in the area of academic interest. Some financial aid is reserved annually for transfer candidates.

Transfer admission is granted solely in keeping with the University's degree requirement of a minimum of *two years* of full-time study. To be considered for admission a candidate should present in applying, evidence of good standing, academically and personally, in his or her preceding college and sound reasons for wishing to transfer.

In its selection of transfer candidates, the Committee on Admissions gives major consideration to the quality of college-level work completed and some consideration to further evidence of promise for achievement at Brandeis based on the secondary school record, personal evaluations by the appropriate dean and an instructor, testing, and information conveyed by the candidate. Candidates should submit either Scholastic Aptitude Test or ACT scores from testing completed during secondary school or no later than April of the year of application.

Part-Time Degree Program

Admission to the part-time degree program at Brandeis is based upon similar standards as are used in the admission of regular full-time degree candidates, except that part-time degree applicants must also demonstrate that they are unable to proceed toward the B.A. degree at the normal rate of work required of full-time students. A personal interview is required.

Part-time degree candidates pay on a course-by-course basis ($730.00 per semester course for 1980-81). In order to receive the baccalaureate, they must meet *all* degree requirements, except rate-of-work requirements, that apply to full-time students. The work on the baccalaureate must be completed within eight calendar years of admission to part-time degree candidacy. Credit will be given for course work done elsewhere if it meets University transfer credit criteria.

Special Student Status

The University accepts as Special Students for the fall and spring semesters a small number of persons who are not candidates for a degree at Brandeis and who wish to elect one or more courses for which they are qualified and can demonstrate special need. This would include students who are degree candidates at another college or university wishing to attend Brandeis as Visiting Students. Special Student status is subject to approval on a semester basis. Neither residence nor financial aid is available to Special Students, and no Special Student may take precedence over a degree candidate in any limited enrollment course.

Persons interested in Special Student status should apply by August 1 for the fall semester and by January 1 for the spring semester.

Credit for College-Level Work Taken Elsewhere

Advanced Placement

Brandeis University participates in the Advanced Placement Program of the College Entrance Examination Board. Qualifying scores necessary to receive credit are recommended by the academic departments to their school councils and administered by the Office of the Dean of the College.

Generally, especially in the sciences, advanced placement credit may not be applied toward satisfaction of a field of concentration. However, it may permit students to begin work in a field at a higher level. Advanced placement credit may be applied toward satisfaction of university degree requirements as described below:

Examination	*Qualifying Score*	*University Requirement Met*	*Semester Course Credit*
American History	3, 4, 5	None	2
Art Literature	3, 4, 5	½ Creative Arts	1
Biology	3, 4, 5	½ Science	2
Chemistry	3, 4, 5	½ Science	2
Chemistry	5	Science	2
English	3, 4, 5	½ Humanities	1
European History	3, 4, 5	History	2
French	3, 4, 5	Foreign Language	2
German	3, 4, 5	Foreign Language	2
Latin	3, 4, 5	Foreign Language	2
Math AB	4, 5	½ Science	2
Math BC	3, 4, 5	½ Science	2
Music Literature	3, 4, 5	½ Creative Arts	1
Physics B	3, 4, 5	Science	2
Physics C-Mechanics	3, 4, 5	½ Science	1
Physics C-Electricity	3, 4, 5	½ Science	1
Spanish	3, 4, 5	Foreign Literature	2

Students desiring to have their Advanced Placement Examination Record considered must request the College Examination Board to forward a report to the Coordinator of Advanced Placement, Office of the Dean of the College, Brandeis University, Waltham, Massachusetts 02254. Requests for additional information on the Advanced Placement Program should be addressed similarly.

Credit for College-Level Work Done in High School

Students may petition through the Office of the Registrar for credit toward the Brandeis degree for college-level work taken before entering Brandeis as freshmen. Such work must be taken during the equivalent of the senior year in high school and/or summers succeeding the junior year; taught by university faculty and contained in the official college bulletin; satisfy the conditions outlined in Brandeis policies for transfer credit and/or summer school, as appropriate, in terms of achievement level and course content; and be certified through an official college transcript received by Brandeis.

Transfer Credit Policies

Each incoming transfer student is furnished by the Registrar with an evaluation based upon existing faculty policies. The evaluation will indicate the number of course credits granted and the number of degree requirements which have been met. No more than 16 course credits may be granted because residence requirements specify that a minimum of 16 courses in four semesters must be successfully completed at Brandeis.

Courses must have been taken at accredited, degree-granting institutions from which an official transcript has been received. The courses must be generally equivalent to courses offered at Brandeis, and the grade received must be equivalent to at least a "C-," though credit is usually awarded for a "pass" grade in a system allowing non-letter grades. Occasionally, credit may be awarded conditionally, pending successful completion of a year at Brandeis.

Credit is granted on an equivalent semester basis with four course credits being awarded for completion of a normal semester's work at the other institution. Normally one quarter course receives no credit, two quarter courses are granted one course credit, and three quarter courses are awarded two course credits. Two quarter courses taken within what are departments of the same school at Brandeis will equal one semester course and will satisfy one-half the distribution requirement in that school.

Students who do not initially receive credit for a particular course taken at another institution may petition the Registrar for reconsideration. Such a petition requires the signature of the appropriate Brandeis faculty member, and must indicate the Brandeis course to which it is considered equivalent. In an unusual situation, the petition may be referred to the Committee on Academic Standing for final resolution.

Application and Admissions Procedures

For the most current information regarding admissions procedures and deadline dates, prospective candidates should consult the instructions accompanying the application.

The address for the forwarding of all inquiries, materials and test results is:

Office of Admissions
Brandeis University
Waltham, Massachusetts 02254
Telephone: 617-647-2878

Fees and Expenses

Financial Regulations

Semester bills will be mailed in July and November and must be paid prior to August 1, 1980 and January 5, 1981, respectively. Any balance of semester charges remaining unpaid after the due date will be subject to a late payment charge in accordance with the following schedule: 30 days, $25; 31 days to 60 days, $50; beyond 60 days, $100.

Any student who has not cleared his or her financial obligations may be denied the privileges of attending classes and using University facilities, and every student must satisfy his or her financial obligations in full to the University in order to be considered eligible for graduation. Reports of grades or transcripts of records and any and all certifications will be issued to students only after all financial obligations to the University have been discharged. Failure to discharge financial obligations includes, but is not limited to, delinquency of a borrower in repaying a loan administered by the Student Loan Office, and the inability of that office to collect such a loan because the borrower has discharged the indebtedness through bankruptcy proceedings.

Application and Matriculation Fees

Each application for freshman or transfer admission must be accompanied by a fee of $25. All application fees are non-refundable and cannot be credited toward other fees.

A Matriculation Fee of $150 must be filed by each candidate upon notification of acceptance. This fee reserves a place in the class and is credited toward the first semester tuition bill. If the student fails to enroll or withdraws his or her application, the Matriculation Fee is not refunded.

Tuition

The tuition fee for 1980-81 is $5,835 and the fee for each semester course required for degree credit is $730. Those students who are awarded financial assistance by the University and who need to take extra courses may request the Director of Financial Aid to authorize appropriate increases in their awards.

Library privileges and use of athletic facilities for the academic year are included in the full tuition fee.

Students who return to the University after withdrawing will pay the prevailing tuition and other fees. In view of the constantly increasing costs of education, students may expect tuition increases during their academic careers.

Room and Board Fee

The total charges for a dormitory room and a 21-meal per week board contract for the 1980-81 academic year are $2,600. Other meal contract options are available at annual rates ranging up to $115 less than the basic 21-meal per week of $1,450.00.

For upperclass students, living accommodations in either of the two apartment complexes are also available at annual rates ranging up to $390 more than the dormitory room rate of

$1,150. In one of the apartment complexes, occupants are, additionally, directly responsible for pro rata portions of the monthly utility bills.

Each entering freshman must mail a deposit of $100 to the University with his or her completed residence license and meal contract. Returning upperclass students must make their advance deposits of $100 during the spring room drawing.

Students residing in dormitory rooms must sign room licenses and board contracts binding for the full academic year. Students residing in either of the apartment complexes must sign room licenses binding for the full academic year; board contracts are available to but not required of these students.

Non-resident students may eat in the University dining halls on a cash basis.

Transcript Fee

Students are entitled to one formal transcript of their academic work without charge. A charge of $2 will be made for each subsequent transcript. The student will pay the transcript fee in advance at the Registrar's Office (Usdan Student Center). Transcripts will be issued only to those students whose financial records with the University are clear.

Other Fees

Other fees to which a student will or may become subject include:

1. Orientation fee, $20.00;
2. Media and Government fee, $24;
3. Student health services fee, $115;
4. Health insurance premium (single coverage), $170;
5. Late registration fee, $10;
6. Change of course fee, $10;
7. Late filing of course enrollment card, $20;
8. Makeup examination fee, $5;
9. Laboratory fee, $5-$50;
10. Studio fee, $5-$50;
11. Study abroad administration fee, $100 per semester;
12. Medical school application processing fee, $50;
13. Diploma fee, $10; and
14. Eight payment plan fee, $35.

Refunds

A student who leaves the University without the approval of the Committee on Academic Standing, or who is suspended or dismissed from the University, is not entitled to any refund.

When the Committee on Academic Standing grants a leave of absence or allows a student to withdraw during a semester, that student shall receive a refund of charges in accordance with the following:

1. ***Tuition:***

Withdrawal: Before the opening day of instruction: 100% of semester tuition.
On or before the second Friday following the opening day of instruction: 75% of semester tuition.
On or before the fifth Friday following the opening day of instruction: 50% of semester tuition.
After the fifth Friday following the opening day of instruction: no refund.

2. ***Grants:*** In the case of a scholarship student who withdraws, the student's account will be credited with the same proportion of the semester scholarship as charged for tuition: 25% if the student leaves on or before the second Friday; 50% on or before the fifth Friday; and, 100% thereafter. The balance of the scholarship will be cancelled.

3. ***Room and Board Charges:*** Refund of room and board contract charges are determined in accordance with the terms outlined in the contract.

The date of withdrawal or leave will be considered to be the date approved by the Committee on Academic Standing.

All requests for refunds must be in writing and are subject to review and final approval by the controller.

Financial Aid

Brandeis maintains an active financial aid program consisting of grants, loans and jobs. The staff of the Office of Financial Aid is available to assist parents and students in planning to finance four years of undergraduate education.

Financial aid is awarded after a careful analysis of the family's ability to support the student's costs of education. The analysis is based on the information submitted by the family on the Financial Aid Form (FAF) and calculated by the College Scholarship Service according to a federally approved system. Included in the analysis is the ability of the family to contribute from current income and assets, the student's ability to earn through summer and term-time employment and the ability of the student to assume long-term, low-interest loans. The difference between a family's ability to support the student and the actual costs of education is determined to be the student's financial need. The Office of Financial Aid will attempt to meet the established need through a financial aid "package" consisting of grant, loan, and job assistance.

Costs

An average student expense budget for 1980-81 is as follows:

	Resident	*Commuter*
Tuition and required fees	$5,859	$5,859
Dormitory room	1,150	——
Board (21 meals)	1,450	——
Housing and travel allowance	——	1,325
Books and supplies	200	200
Miscellaneous	551	551
Health fee	115	115
Total	$9,325	$8,050

Financial Aid Policy

1. All students receiving grant aid will be expected to assume loan and work obligations. The loan and employment combination of the financial aid package takes into consideration the year in college and family financial circumstances. Students may request a change in the combination to increase either work or loan.

2. Financial Aid applicants are required to apply for the federal Basic Educational Opportunity Grant Program and for state scholarship programs where available. If an eligible student does not make an application to the Basic Educational Opportunity Grant Program, the full amount of aid for which he or she was eligible will automatically be deducted from grant aid given by Brandeis.

3. Students are required to report all scholarships and grant aid received from sources other than the University. All state and federal government grant aid will be deducted dollar for dollar from the Brandeis grant. All non-University, non-government scholarship and grant aid will result in a reduction of the Brandeis grant after the first $150 of outside award(s). University loans or jobs will not be reduced as a result of such aid. This policy will enable the University to assist other needy students for whom grant aid was previously unavailable.

4. All students must reapply for financial aid each year. Applications are distributed by the Office of Financial Aid in early December. The deadline for applying for renewal of financial aid is March 1.

5. The amount of aid received is adjusted yearly. During review, adjustments are made for changes in income from the previous year. Families are asked to file the previous year's Federal Income Tax statement in support of the application.

6. Although the University will endeavor to maintain financial aid for those students awarded aid prior to matriculation, the University in no way obligates itself to such a policy, nor will it under any circumstances feel obliged to continue such aid to a student who does not make acceptable progress toward the degree, or to a student who requires more than 32 semester courses at Brandeis to complete degree requirements.

7. If a student on financial aid wishes to accelerate the academic program by taking extra courses, the student may apply for financial aid to cover the billed cost of these courses.

Loans

1. National Direct Student Loans — Interest is not charged and repayments are not expected (1) while the recipient is carrying at least a half-time program in college or graduate school, (2) while he or she is in the military, Peace Corps, or Vista (for up to three years), and (3) for nine consecutive months thereafter. Interest then is at the rate of 3 per cent per year, and repayment may be made over a ten-year period (with a $90 minimum quarterly payment). Cancellation of a portion of the aggregate loan is available for service as a teacher of the handicapped or in a low-income school district or for service in the U.S. armed forces.

2. Federally Insured Student Loan Program — This program enables all undergraduate students to borrow up to $2,500 a year, not to exceed $7,500 in undergraduate studies. The interest rate on these loans is 7 per cent. All students attending a post-secondary institution at least half time are eligible for Federal Interest Benefits, regardless of family income. Nine

months after leaving school the borrower begins a ten-year repayment period during which time the 7 per cent interest is charged to the student. Deferments may be available under the following conditions:

1) Anytime you return to full-time study at an eligible institution.
2) While you serve in the military, Peace Corps or in the ACTION or VISTA Programs.

Student Employment

The student employment section of the Office of Financial Aid seeks to provide job placements to students seeking work on campus and in the Waltham area. This service is available to students, regardless of whether or not they are receiving financial aid. However, students who receive job allotments as part of their financial aid package will have priority for jobs.

Potential job earnings *are not* deducted from billed charges from the University at the beginning of each term.

Financial Aid to Transfer Students

A limited amount of financial aid is available for students entering Brandeis as transfer students from other institutions of higher education. Applicants who could not afford to attend Brandeis without financial assistance should submit the Application for Financial Aid to Transfer Students that is enclosed with the admission application. The application for financial aid is due at the same time as the application for admission.

Academic Regulations

Rate of Work (Full-Time Degree Candidates)

The normal rate of work is four courses each semester, exclusive of laboratory courses given in conjunction with a lecture course. A student may take five courses in any semester without paying additional tuition and without obtaining special permission. However, in the case of a student taking a fifth course to compensate for a failed course, for insufficient course credit upon matriculation as a transfer student, or in order to accelerate the date of expected graduation, additional tuition charges are incurred.

While freshmen must carry a minimum of four courses, students with sophomore class standing or higher, with the permission of their faculty advisor, may enroll for only three courses per term; this option may not be used in consecutive terms. Upperclassmen working at the three course rate under the flexible rate of work option may not enroll in any of them on a pass-fail basis. Permission to carry fewer courses than outlined above may be granted only by the Committee on Academic Standing and only on grounds of illness or personal handicap. Such permission entitles a student to enroll in a fifth course without fee in some subsequent term. Permission to work and pay at the six course rate may be granted by the Committee in exceptional circumstances.

Changes in Courses

Registration and course enrollment occurs at the beginning of each semester. During the first two weeks of each term, students select their courses in consultation with their faculty advisers. Final course enrollment materials are filed at the end of that period.

Requests for program changes after the second week must be submitted to the Committee on Academic Standing. Such requests, however, are granted only in exceptional circumstances and require written approval of the instructor and the faculty adviser.

An exception to the above procedure is made for students who wish to withdraw from a course within the constraints of rate of work provisions and without academic penalty. In such cases, an appropriate program change form must be submitted, together with a service fee at the Office of the Registrar by the 40th day of instruction in the semester.

Auditing

There is no formal audit status for undergraduate students. Students wishing to audit a course informally must secure the permission of the instructor.

Class Standing

The minimum number of courses required for advancement to each class is as follows: sophomore, 6; junior, 14; senior, 22. The minimum number of semester courses required for graduation is 32. A semester course is the equivalent of 4 semester-hour credits.

Attendance

Any student in good standing has unlimited cuts, provided the student completes the work in the course to the satisfaction of the instructor. A faculty member may, however, require attendance at his or her course, and every assignment must be completed even if the student has been excused for the period. Students on warning are permitted three cuts per course, each semester. *Students on probation are permitted no cuts.*

A daily report is conveyed to the Dean of the College Office indicating those students who are confined to the Stoneman Infirmary because of illness or injury. If a student is required to remain at home or in an outside facility for health reasons, he or she must advise the University Health Services at the earliest opportunity regarding the date of onset of disability and the expected date of return. The Dean of the College will then be so informed and will inform the appropriate faculty members.

Reading Period

An instructor, with the approval of his or her department chairman or interdepartmental committee chairman and the Dean of Faculty, may institute a reading period in advanced courses. A reading period is a two-week period, immediately preceding final examination, during which no classes are held. A student works on assigned course material not covered in class sessions. The reading period material will be dealt with in the mid-year and final examinations.

Grades

Grades will be reported to the Office of the Registrar four times a year. In determining these grades, all components of the student's work in a course will be considered: written work, recitations, laboratory technique and reports, special reports or research, and all examinations. Grading in full-year courses is cumulative, so that spring grades take into account the fall se-

mester work and replace the mid-year grades. In each course, the same requirements for arriving at grades apply to all students.

The following grades will be used with plus or minus where appropriate:

A — High distinction B — Distinction C — Satisfactory
D — Passing, but Unsatisfactory E — Failure

The letters "S" (Satisfactory) or "U" (Unsatisfactory) may be used as the mid-semester grades for undergraduates. At mid-year there must be a regular letter grade, even in full-year courses. The only exception is that "S" or "U" may be used in a full-year readings course (usually numbered 98 or 99).

The numerical equivalents of the grades as determined by the faculty are:

A+ or A 4.0	B 3.0	C 2.0	D 1.0
A- 3.67	B- 2.67	C- 1.67	D- .67
B+ 3.33	C+ 2.33	D+ 1.33	E- 0

The Registrar reports mid-year and year-end grades to students in writing. Instructors notify students of mid-semester grades.

Pass-Fail Option

A student may take up to four courses pass-fail while enrolled at Brandeis. No more than one course may be taken pass-fail at any one time. No more than one course per School taken pass-fail may be offered to meet University Studies or distribution requirements; Freshman Writing Seminar and the course offered to satisfy the foreign literature requirement may not be taken pass-fail. Grades of "pass" "fail" will not be used in computing grade point averages. Normally, courses taken pass-fail will not satisfy concentration requirements. Upperclassmen working at the three course rate under the flexible rate of work option may not enroll in any of them on a pass-fail basis. In year-courses, the grading option (pass-fail or letter grade) elected at the outset applies to both semesters, and may not be changed at midyear. The decision to elect a course pass-fail must be made by the course enrollment deadline through the Office of the Registrar. Informal understandings between students and instructors do not constitute official pass-fail enrollment. Instructors are not informed of the grading option which a student has chosen. Students taking courses pass-fail must complete all assignments and must take mid-year and final examinations.

Examination Attendance

Students who are absent from midyear or final examinations and wish to request a makeup examination must obtain advance authorization from the Office of the Dean of the College.

If a student is absent without excuse from a term-end examination and does not obtain authorization for a makeup examination, the student will be given a grade of zero on the examination. The instructor will be asked to supply a grade for the course. If the instructor fails to do so on or before the institutional deadline, the Registrar will enter a failing grade on the student's record.

A student is expected to complete the work in each course before the beginning of the examination period. Students unable to complete the work in a course by this time may apply, with the consent of the instructor, for an *Incomplete*. Approval of the faculty adviser as well as the instructor is required; for students on warning or probation, the approval of the Office of the Dean of the College is also required. The work must be completed by a date stipulated by the faculty adviser and in no case later than two weeks after the beginning of the next se-

mester. The grade for the course must be filed by the instructor no later than the third week of the next semester. The Registrar is instructed to enter the grade of "E" on the record of any student who fails to obtain an *Incomplete* as stipulated above or who does not complete a course on schedule. Such failures may be changed only by vote of the Committee on Academic Standing.

Should a student not complete other required academic exercises such as laboratory assignments, minor papers, or quizzes, and if the absence or noncompliance is excused, the instructor in charge of the course may, at his or her discretion, require the work to be made up or not count the assignment in determining a grade. When there is no satisfactory excuse for the incomplete work, the instructor may, at his or her discretion, record a failing grade.

Academic Status

At the end of each semester, the Committee on Academic Standing announces the Dean's List of honor students. A student shall be placed on the Dean's List if he or she has earned a semester grade point average in the preceding semester of 3.50 or higher; and has not received a D, E, or F, or more than one C; and has completed a course program within the constraints of rate of work provisions before the deadline for removing an Incomplete; and has received a regular letter grade in at least three courses. A senior doing honors work in the fall may receive an "S" in that course (99) and still be eligible.

In order to be eligible for the degree, students must compensate for any D beyond two with honor grades in an equivalent number of courses. A satisfactory record for a term contains no more than one D and no E's.

At the conclusion of each semester the Committee on Academic Standing reviews the records of students whose performance is unsatisfactory. Such students are informed in writing. In extenuating circumstances, no further action is taken. Students with moderately deficient records are generally placed on warning; students with more seriously deficient records are generally placed on probation; and students whose records are severely deficient may be required to withdraw from the University. Students on warning or probation are required to earn a complete and satisfactory record during the succeeding semester; failure to do so may result in a required withdrawal action. The University reserves the authority to sever relations with students whose academic performance is so profoundly deficient as to suggest an inability to meet academic requirements.

Involuntary withdrawal from the University occasioned by academic deficiency requires the student to interrupt formal study for a minimal period of one year. After that time the Committee on Academic Standing will consider application for readmission. Primary considerations in making readmission decisions are evidence of sustained and productive activity during the period of absence from the campus, evidence of serious academic purpose, and pertinent letters of recommendation attesting to the candidate's readiness to resume formal study.

Leaves of Absence and Withdrawal From the University

Any regular undergraduate student who has been in residence for two semesters and who has a complete and satisfactory record from the preceding semester is eligible for a leave of absence. A leave of absence is granted for one or two semesters and may be extended, at most, once. Students are required to inform the Office of the Dean of the College in writing of their intentions at a specified date prior to the beginning of the term in which they are scheduled to

register. Credit will not normally be granted for academic work taken at other institutions during a leave of absence.

A student wishing to withdraw from the University may do so at any time. After one calendar year has elapsed, the Committee on Academic Standing will consider a student's application for readmission. (Note: Please refer to the schedule of refunds on pages 32 and 33.)

In order to obtain a leave of absence or to withdraw from the University, a student must consult the Office of the Dean of the College and obtain clearance from all appropriate administrative offices.

Dismissal or Severance

The University establishes and administers rules of student conduct and reserves the right to suspend or to require to withdraw students whose conduct, in the judgment of the President, in consultation with the Director of Student Affairs or Deans of the Graduate or Heller Schools, warrants such action. Normally, the University will give due notice and, if requested, a hearing before the appropriate body to any student who may be required to withdraw from the University for other than academic reasons.

University Records Policy

The Brandeis University Records Policy contains procedures and constraints governing the disclosure to third parties of personally identifying information gained from official records; procedures and rights governing student access to his/her educational records; the nature and location of various records maintained by the University and the title of the University official responsible for their maintenance, supervision, and interpretation; and procedures by which students may seek to remedy alleged inaccuracies in University records.

In addition, students are invited annually to decide whether they wish the University to disclose "directory information" to inquirers. Directory information consists of the following items:

> Name, address (local) and telephone number, home address and telephone number, date of birth, class standing (freshman, sophomore, etc.), dates of attendance and field of concentration.

If the University is instructed to withhold directory information, only the student's name will be disclosed to inquiring parties (except in emergencies or as otherwise allowed by law); otherwise, all items of directory information will be disclosed. Consult the Office of the Dean of the College for additional information on the University Records Policy.

Student Life

The Division of Student Affairs is responsible for the quality of student life and student development. Among its areas of concern are cultural, intellectual, recreational and religious programming, residential life, the availability of professional resources to aid students in their present endeavors and future life planning, student conduct matters, and health and counseling services.

Located in the Usdan Student Center, the Office of Student Affairs is responsible for co-curricular programming; advising, supporting, and coordinating student groups and activities; the smooth operation of the multi-purpose Usdan Student Center; and other campus

programs such as orientation and parents' weekend. The staff, in conjunction with undergraduate students and faculty, maintains a varied program of social, cultural, and intellectual events during the academic year. Policy formulation and committee work of import to student life and activities are also focused here.

The Division of Student Affairs coordinates the following departments and services:

The Office of Career Planning

The Office of Career Planning assists undergraduates with their graduate and career plans. The office staff provides individual career counseling, life planning workshops, career exploration programs, and a full career resource center. Located in the Usdan Student Center, the office serves as a link between current undergraduates and Brandeis alumni — alumni from the business and professional world, who have entered fields of higher education, medicine, journalism, social work, law, and many others. In addition to counseling and career information, the staff provides assistance to seniors and alumni as they prepare and distribute job applications and credentials. Coordination of interviewing with representatives from educational, governmental, and business organizations is provided throughout the academic year. All students are encouraged to make use of these resources as early in their Brandeis career as possible.

Office of Residence Life and University Housing

The undergraduate College of Arts and Sciences is essentially a residential college with nearly 80 percent of its students living in residence halls. The Office of Residence Life and University Housing, located in the Usdan Student Center, is responsible for the effective administrative operation, as well as counseling and programming activities, within all residence halls. Off campus housing services and graduate housing are also functions of this office.

Residence halls are grouped into eight living areas ranging in size from 140 to 400 students. Each area is under the supervision of a Resident Quadrangle Director or Area Coordinator. In addition, Head Resident Counselors and undergraduate Assistant Resident Counselors "live-in" and aid in the administration of several residence halls. Residence staff members are available to provide assistance to students on academic, personal, and social matters.

Religious Activities

Religious activities and related programs are centered in the Three Chapels Association and are conducted by the student religious organizations: B'nai B'rith Hillel Foundation, Bethlehem Chapel Community and the Harlan Chapel Christian Community.

Hillel, the Jewish student movement on campus, is a multi-faceted and highly pluralistic community which embraces and welcomes Jews of all persuasions and interests. Hillel presents a wide range of programs including an unusual free university of seminars, workshops, study groups, social service and philanthropic projects; a Jewish Arts Festival; Holocaust Remembrance Week; a diversified Israel program; a Sabbath lecture series; Soviet and Arab Jewry projects; a Hebrew chorus; and a full spectrum of religious services and holy day celebrations.

The Bethlehem Chapel Community serves the total Catholic community at Brandeis: students, faculty and staff. There are Sunday and daily Masses, hours for private and group consultation, seminars, study groups, Holy Day and Feast Day programs and other events.

The Harlan Chapel Christian Community serves the Protestant community at Brandeis and presents a variety of services and programs including religious services, poetry readings, films and speakers. The Christian Fellowship and the Brandeis University Gospel Choir are under the sponsorship of the Harlan Chapel Christian Community.

The three chaplains serve as advisers to these groups and are available to all persons within the University community for personal and religious counseling and informal exchange.

Student Activities

Usdan Student Center

The Usdan Student Center acts as a focal point for co-curricular and extra-curricular activities at Brandeis. The Center provides office space and facilities for student government and a broad range of student clubs and organizations. Undergraduate students play a major role in the operation of the building, both through the large number of student staff who work in the building, and through the Usdan Student Center Advisory Board which assists in the determination of policy and student organization space allocation.

Student Government

Brandeis students consider themselves a part of a community dedicated to the advancement of liberal values, the enrichment of life experience and the deepening of learning. Organized as the Brandeis Student Union, they consider it their prime responsibility to create a democratic student organization, to increase the flow of new ideas and to provide enjoyable and creative recreational and cultural activities for all students.

The Student Union is the assembly of the entire student body. The Student Senate, consisting of elected officers and elected representatives from each class, meets regularly to conduct its business and supervise its programs. The Student Programming Board has the responsibility for collection and allocation of the voluntary Student Activities Fee, which funds a variety of social, cultural and educational programs.

Student Organizations

A variety of student organizations exist for all who are interested. Organizations are open to any matriculated student on the basis of competency or interest. No exclusive or secret societies may be organized.

Co-curricular activities include the American Studies Club, Anthropology Club, Art Club, Chemistry Club, *le Club Francais*, Computer Science Club, Economics Club, Linguistics Society, Music Club, Physics Club and Psychology Club.

Musical, dramatic and dance activities include the Brandeis University Gospel Choir, Dance Artistry, Gilbert & Sullivan Society, Israeli Dance Group and Tympanium Euphorium.

Special interest groups include African Circle, Amnesty International, Black African-American Party, Brandeis Gay Alliance, Brandeis Asian-American Students Association, Brandeis Democrats, Brandeis Resistance to Registration and the Draft, Brandeis Zionist Alliance, Bridge Club, Chess Club, Christian Fellowship, Clamshell Alliance, College Republicans, Cycling and Outing Club, Divestment Club, Environmental Studies Committee, Friendship International, Frisbee Club, Greenpeace, Grito, Hillel, Minority Pre-Med Society, Numismatic Society, Photography Club, Pot Shop, Pre-Dental Society, Pre-Law Society, Rid-

ing Club, Sailing Club, Ski Club, Speech & Debate Society, Student Service Bureau, Student Sexuality Information Service, Table Tennis Club, Waltham Group and Women's Coalition.

The campus radio station, WBRS-FM, is owned by the University, and operated solely by students. The station is licensed by the FCC to transmit on 91.7 mhz to the greater Boston community. A broadcasting schedule exceeding 100 hours per week includes programs of information, entertainment and public service.

Student Publications

The Justice is the student campus newspaper, edited and managed entirely by students to cover matters of campus interest. It is published weekly during the academic year. The Student Senate annually publishes a *Yearbook* and a *Course Evaluation.* In addition, several special interest publications are available. These include, among others, *Folio*, the Brandeis literary journal, and *Intelligentsia*, a campus humor magazine.

Committee on Student Life

This faculty-student-staff committee chaired by the Director of Student Affairs is responsible for recommending changes needed to improve the quality of life for the Brandeis community. It is also charged with making recommendations to the President regarding rules, regulations, and policies governing conduct on campus.

Students also serve as members of a variety of University and faculty committees including the Educational Policy Committee, Committee on Admission and Financial Aid, Library Committee and Athletics Committee. Two students also serve as representatives to the Board of Trustees and the Executive Board of the National Alumni Association.

Health Services

Because health and medical care are an integral part of the University experience the University Health Services provides a program of comprehensive medical and emotional care. A mandatory Health Participation Fee entitles students to medical services available at the Golding Medical Outpatient Facility and counseling services available at Mailman House without additional charge during the academic year. The annual health fee does not pay for off-campus medical consultations, dental care, medications, laboratory tests, drugs, x-rays, reusable supplies or admission to the University's hospital, Stoneman Infirmary, and students are responsible for these charges.

In addition, each student is required to have personal health insurance. The student may elect to participate in the Student Health Insurance Plan offered through the University underwritten by Fidelity Life Insurance Company of America or may substitute membership in another plan.

Except for limited day care facilities, the Health Services and the use of the Stoneman Infirmary are available to students only during the period in which the University is in regular academic session.

Prospective students planning to matriculate in the college and graduate schools must submit a Health Examination Report completed by the family or personal physician prior to registration. In addition to information about previous health and details of the physical examination, evidence of immunization against tetanus, polio, measles, mumps and rubella are required. Since students may not register until the requirements have been satisfied, it is strongly recommended that the Health Examination Report be submitted by July 1.

The Student Health Insurance Plan is designed to defray expenses of those care situations which are beyond the scope of the Health Services; for example, laboratory and x-ray examinations, as well as hospitalization for illnesses or accidents of a more serious nature. The Plan extends for a full calendar year commencing with the first day of the academic year.

A detailed brochure of the services offered by the University Health Services as well as an outline of the details of the Plan is mailed to parents. Students and parents are urged to read this brochure carefully and keep it for reference.

Whereas situations not covered within the Health Services or by the Insurance Plan are infrequent, an awareness of these possibilities will lessen misunderstanding and disappointment. In such instances, students and their parents are responsible for expenses which are not covered by the University's health program or its associated insurance policy. Similarly, students and their parents are responsible for expenses which are not covered by alternative insurance programs substituted for the Brandeis University Student Health Insurance Plan.

Psychological Counseling Center — Mailman House

The Psychological Counseling Center, which is a part of the University Health Services, is located in Mailman House. It provides professional assistance to students who have personal or emotional problems. Those who wish such help may refer themselves directly to the Center. Their communications with the staff are held in strict confidence.

Campus Police

The Campus Police Department is located at Room 1-A, Sydeman Annex. Responsibilities of this 19-member campus police force embrace campus-wide security/safety patrol, traffic control and enforcement of University driving/parking regulations, protective custody of University offices, classroom/dormitory areas and professional inquiry into incidents involving theft, trespassing and related matters. Special emphasis of the Department is placed upon preventive and protective care for all members of the University community.

Automobile Regulations

All students must register their vehicles with the Campus Police. Students with motor vehicles must observe University traffic and parking regulations, a copy of which will be placed in each mailbox at the beginning of the school year. Due to limited space, the Brandeis Parking and Traffic Committee *strongly* recommends that students leave their motor vehicles at home.

Athletics

Recognizing the importance of athletics in a sound college educational program, Brandeis University offers a wide variety of organized sports. All aspects of college athletics, however, are subordinate to the essential educational purposes of the University. The athletic program exists for the welfare of the students and for the contribution it can make to their educational experience. A physical examination is required before participation in any organized sport.

The University fields varsity teams for men in soccer, baseball, basketball, fencing, lacrosse, cross-country, indoor and outdoor track, tennis and swimming. Women engage in varsity basketball, fencing, soccer, tennis, softball, swimming, volleyball, cross-country and indoor and outdoor track. There also is a co-ed varsity sailing team. The varsity squads

compete against teams representing colleges and universities which regard athletics in the same spirit as Brandeis University. Playing on a home-and-away basis, Brandeis teams have scheduled competition with teams from the Midwest, the South and New England. Brandeis is a member of N.C.A.A., A.I.A.W., New England Athletic Conference, Eastern Collegiate Athletic Conference, and the Greater Boston Collegiate Athletic Association. All home athletic contests are played on the campus at Gordon Field, Marcus Field, Rieger Tennis Courts, Shapiro Athletic Center and the Linsey Sports Center.

Believing in the value of athletic participation for both conditioning and relaxation, the University maintains a full array of intramural programs. Competitions are organized in various sports on a volunteer-team basis. The intramural program includes flag-football, basketball, softball, tennis, table tennis and volleyball. Residence hall and commuter teams have also been organized in these sports, with the competitive aspects subordinated to the enjoyment of the game.

Dining Facilities

Student cafeterias are located in the Sherman and Usdan Student Centers. A separate kosher kitchen is provided in Sherman. The Usdan Student Center also offers an ice cream parlor and the Boulevard, which consists of a group of small food shops and a retail bakery. In addition, light refreshments are provided in Cholmondeley's, a coffee house operated by students in Usen Castle.

The Stein

Located in Sherman Student Center, The Stein is a tavern offering sandwiches, light meals, beer and wine. The Stein is a popular gathering place for students throughout the academic year.

Bookstore

Located in the Usdan Student Center, the campus bookstore is operated by a private, non-Brandeis agency. It is open Monday and Thursday from 8:30 a.m. to 7:30 p.m., Tuesday and Wednesday from 8:30 a.m. to 5:00 p.m., Friday from 8:30 a.m. to 4:00 p.m., and Saturday from 11:00 a.m. to 3:00 p.m. The bookstore, through its close association and coordination with academic departments and faculty members, offers students a comprehensive stock of textbooks and paperbacks related to the academic program. School supplies, clothing, health and beauty aids, and gift items may also be purchased at the bookstore.

Post Office and Student Mailroom

The campus mailroom is located in the Usdan Student Center. All student mail is delivered to the campus post office, and a separate mailbox is maintained for each student. From 11 a.m. to 5 p.m., Monday through Friday, and from 11 a.m. to noon on Saturday, all services are provided, including the sale of stamps and money orders, registry of mail, and handling of parcel post packages.

Campus Facilities

Academic and Administrative Buildings

Abelson Physics Building

The Abelson Physics Building houses the teaching and research laboratories of the Physics Department. It also includes a major physics lecture and demonstration hall.

Administration Center

Overlooking the main entrance to the campus, the Brandeis University Administration Center houses the offices of the president, vice-presidents, dean of faculty, University administration, and the National Women's Committee. Conference room facilities serve the Board of Trustees, faculty, and administrative staff. The center comprises the Bernstein-Marcus Administration Center, Gryzmish Academic Center, and the Julius and Matilda Irving Presidential Enclave.

Bass Physics Building

A unit of the science quadrangle, the Bass Physics Building includes research facilities for the Physics Department as well as departmental offices.

Bassine Biology Center

The Bassine Biology Center houses all of the research activities of the Biology Department. It includes environmental growth chambers and greenhouses in addition to laboratories, laboratory support areas, preparation rooms, and seminar facilities for the use of biology faculty and research personnel.

Brown Building

The Benjamin Brown Building, a major research center, is located adjacent to the Florence Heller Graduate School for Advanced Studies in Social Welfare and provides offices and work rooms for the multifaceted research programs conducted by the Heller School.

Brown Social Science Center

Adjacent to the library, the Brown Social Science Center includes three structures. The central building houses the Anthropology and Psychology Departments. It contains classrooms, seminar rooms, faculty offices, laboratories and a small anthropology museum. Glass walls overlook an attractively landscaped quadrangle which the Social Science Center encloses.

Brown Terrarium

Completely equipped as an experimental greenhouse, the Brown Terrarium, located atop the Biology Center, provides facilities for botanical research.

Dreitzer Art Gallery

Designed as an adjunct to the art exhibition facilities of the University, the Mildred and Albert J. Dreitzer Art Gallery in the theater houses special loan exhibitions as well as periodic displays of selected art works from the University's permanent collection.

Edison Chemistry Building

A center for research in chemistry, the Harry Edison Chemistry Building includes laboratories and research offices for faculty, postdoctoral research fellows and other research personnel of the Chemistry Department.

Epstein Campus Service Center

The Ethel and Rubin Epstein Center for campus services houses several administrative departments of the University, including the Purchasing Department, the Plant Operations Department, and the University's major service facilities, including repair and maintenance shops and stock and storage areas.

Faculty Center

The Faculty Center, a gift of Brandeis Trustee and Mrs. Lawrence A. Wien, contains club facilities, lounges, the faculty dining room, a private dining room for faculty groups, and apartments for visiting faculty, lecturers, and guests of the University.

Feldberg Computer Center

The Feldberg Computer Center, located centrally on campus, houses computer equipment for research work in the life, natural, and social sciences, humanities, and the arts, and provides teaching and administrative facilities.

Fellows Garden

A centrally located landscaped park, Fellows Garden was dedicated in 1976 as a tribute to Brandeis Trustees, Fellows and President's Councilors. At each commencement, trees are planted and plaques installed in honor of appropriate leaders of the Brandeis community, who take part in the ceremony.

Ford Hall

One of the original buildings on the Brandeis campus, Ford Hall contains classrooms, laboratories and faculty offices.

Foster Biomedical Research Laboratories

Serving the aims of basic science, the Henry and Lois Foster Biomedical Research Laboratories provide the highly-controlled, disease-free environment for laboratory animals so necessary to extend understanding in the life sciences. The two-story brick facility is located adjacent to the Kosow Biochemistry Building and the Rosenstiel Basic Medical Sciences Research Center.

Friedland Research Center

Joined to Kalman Science Center by an overhead corridor of glass and stainless steel, Friedland Research Center provides four stories of modern laboratories for research in biochemistry and related life sciences.

Gerstenzang Library of Science

The central structure of the science quadrangle is the Gerstenzang Library of Science. This building also includes lecture-demonstration auditoria. The library contains stacks, along with facilities for preparation and use of microfilms, a periodical room and journal reading area, office and other library administration facilities. The lecture-demonstration halls are constructed as amphitheatres, one seating 300 and the other 100. This unit is connected to all other buildings in the University's science complex.

Goldfarb Library

Near the center of the campus, Goldfarb Library is a brick, limestone and glass structure. On the periphery of its open stacks are student study carrels and faculty studies. Seminar rooms are provided for courses requiring intimate and immediate access to library resources in specific research and reference areas. The library also contains audio-visual aids, specialized reading rooms, typing rooms and lounges. Works of art from the University collection are on display in its galleries.

Golding Judaic Center

Overlooking the campus from the northeast corner of the Academic Quadrangle, Golding Judaic Center contains classrooms devoted to the study of the Near East, Judaica and related subjects. Classrooms and faculty offices ring its large, central lecture hall.

Golding Medical Outpatient Services Building

This facility is adjacent to the University Infirmary and provides treatment, consulting, examining and medical records rooms.

Goldman-Schwartz Art Studios

The Goldman-Schwartz Art Studios provide classrooms, faculty offices and sculpture areas for the Department of Fine Arts, and studios for faculty, advanced students and artists-in-residence.

Goldsmith Mathematics Center

A unit of the science quadrangle, the Goldsmith Mathematics Center provides classrooms, seminar rooms, research offices, faculty offices and a mathematics library.

Hayden Science Court

The Charles and J. Willard Hayden Court, comprising several acres in the central campus area, is the site of present and projected science facilities of the University. This area has been set aside as a memorial to two generous benefactors, whose pioneer gift stimulated the extensive scientific programs of the University.

Heller School

The Florence Heller Graduate School for Advanced Studies in Social Welfare is located in the Heller Building overlooking the campus. The University's only professional school, the Heller School is a major training ground for social welfare policymakers and teachers.

Hiatt House in Israel

Hiatt House is located in the Talbieh section of Jerusalem, near the famed Rose Gardens, a favorite attraction for visitors. It provides classrooms, offices, library, and dining hall for students and teachers in the Hiatt Institute Program. Hiatt House is sponsored by Brandeis Trustee Jacob Hiatt of Worcester, Mass. and his late wife, Frances.

Kalman Science Center

The University's first structure devoted entirely to science, Kalman Science Center contains instructional and research laboratories for the undergraduate School of Science and for the advanced work of the Graduate School of Arts and Sciences.

Kosow Biochemistry Building

A unit of the Biochemistry Research Center located to the east of the original science facility of the University, and joined to it on all floors, this building provides additional modern laboratories where research in biochemistry and the related life sciences is conducted.

Kutz Hall

The Offices of Admissions and Financial Aid occupy the second level of Kutz Hall. Attractive and well-designed facilities accommodate interviewing, counseling and administration of the departments. The admissions reception area, overlooking Greater Boston, provides for the comfort of campus visitors and is a showcase for faculty and student creative works of design.

Lecks Chemistry Building

Also adjoining the original science facility, the Lecks Chemistry Building provides modern laboratories and research spaces for the expanding chemistry research program of the University.

Lemberg Hall

Lemberg Hall is the home of the Lemberg Children's Center, a day-care facility which also provides for the educational and social development of young children.

Lown School for Near Eastern and Judaic Studies

The Philip W. Lown School for Near Eastern and Judaic Studies is located in the Academic Quadrangle, adjacent to the Humanities Center. This building contains classrooms, seminar rooms, faculty offices, graduate study spaces, a language laboratory, an archaeological studies laboratory, and an auditorium seating approximately 100 persons.

Mailman House

Mailman House contains the University's Psychological Counseling Center as well as seminar rooms and Psychology Department laboratories. The center is located adjacent to the infirmary on South Street.

May Memorial Hall

The Morton May Memorial Hall is a striking glass, brick and granite structure which provides office and teaching spaces for the African and Afro-American Studies Department and other programs. The building includes a spacious lounge for student meetings, colloquia, and seminars.

Olin-Sang American Civilization Center

On a hillside overlooking the library and the Three Chapels, the Olin-Sang American Civilization Center provides unique seminar-classroom halls which include display areas for original manuscripts and source materials relating to the courses offered. Included are the Diplomatic Studies, Human Rights, Lincoln, Presidential, Washington, Judicial, Legislative, Ethnic Studies, and Slater Halls. The Shapiro Forum, which is the building's lecture auditorium, is patterned after the United Nations General Assembly hall.

Pearlman Hall

A circular lounge, walled in glass, is a unique architectural feature of Pearlman Hall. Its main building contains classrooms and seminar rooms and houses the Sociology Department.

Pollack Fine Arts Teaching Center

The Maurice Pollack Fine Arts Teaching Center includes a specially designed lecture hall for teaching art history and a multipurpose studio and photo study room. This center is located between the Art Studios and the Rose Art Museum.

Rabb Graduate Center

The Rabb Graduate Center provides facilities for Graduate School of Arts and Sciences programs, administrative and faculty offices, seminar and teaching rooms, and study space for graduate students.

Rapaporte Treasure Hall

Rapaporte Treasure Hall adjoins the University's main library and is a repository for rare books, incunabula and other treasures. Its upper level serves as the main exhibition area; its balcony accommodates readers and staff. The lower level provides a storage vault for rare items with special safeguards insuring against fire and theft.

Rose Art Museum

Located within the Creative Arts Enclave, the Rose Art Museum is the focal point for the University's art collection. On permanent display are portions of the ceramic collection of the late Edward Rose, Trustee Emeritus, and his wife, Bertha. Major loan exhibitions are placed on display during the academic year as well as selections from the University's permanent

collection. An addition includes gallery space, a humidified space for painting storage, and workrooms for the preparation of exhibits.

Rosenstiel Basic Medical Sciences Research Center

The Lewis S. Rosenstiel Basic Medical Sciences Research Center is a major science research facility that houses all of the activities of the Rosenstiel Center and offers the scientists working in the center sophisticated and modern scientific facilities and equipment. Located adjacent to biochemistry facilities, the Rosenstiel Center has four floors devoted to laboratories and specialized research spaces. In addition, the building includes administrative offices, seminar rooms, a research library, glass blowing facilities and a large instrument resource room.

Sachar International Center

The center is a tribute to Abram L. Sachar, Chancellor and first President of Brandeis University, and his wife, Thelma. It includes classrooms, meeting rooms, a lecture hall, a library-lounge facility, administrative office spaces for all international programs, faculty offices, and the office of the Chancellor. The Silver Lecture Hall, the Lazar Library, the Edward and Sade Goldstein Center for Economics, and the Addison-Golde Terrace are part of the Sachar Center.

Shiffman Humanities Center

Atop a hillside where its glass walls reveal spectacular views of the campus and the country north of Boston, Shiffman Humanities Center employs an unusual academic concept in educational architecture. Original manuscripts, portraits, and source materials related to courses being offered are displayed in the seminar rooms. The latest in electronic language teaching facilities is employed in the building's language laboratory. Included are the Language and Phonetics, English and American Literature, Classics, Philosophy, Renaissance, Germanic and Asian Studies Halls.

Schwartz Hall

Schwartz Hall houses a 300-seat lecture auditorium, classrooms, and a spacious lounge. The lounge contains a permanent exhibit of oceanic art and ethnographic objects donated to the University by Mrs. Helen S. Slosberg.

Slosberg Music Center

Located at the campus entrance, the Slosberg Music Center includes classrooms, practice rooms and office facilities for the Music Department. The center has its own music library and a recital hall with carefully designed acoustics. Slosberg Recital Hall is the location of the University's rich program of chamber music concerts and solo performances. It also houses the University's baroque organ, given by Mrs. Aber D. Unger of Baltimore, Md., as a memorial to her late husband.

Spingold Theater Arts Center

The Spingold Theater Arts Center is a unique and imaginative concept translated into exciting design. With a theater-auditorium as its hub, the circular center includes areas for every facet of the performing arts: workshops, design rooms, costume preparation and storage ar-

eas, rehearsal and dressing rooms, a little theater and a dance studio. Spacious areas are equipped as classrooms and offices, and the lobby displays painting, sculpture and other treasures.

Stoneman Infirmary

On the forward slope of the campus, near Usen Castle, the infirmary houses a first-aid treatment room, lounge, and rooms for sixteen bed patients.

Sydeman Annex

This facility contains film laboratories, the Office of Continuing Studies, the Department of Security and Safety, the offices of the campus photographer and faculty offices.

Ullman Amphitheatre

Utilizing a natural bowl below the science quadrangle, the Amphitheatre is the colorful setting for University commencements.

Wolfson-Rosensweig Biochemistry Building

Centrally located within the science complex, this building provides additional modern laboratories where research in biochemistry and related life sciences is conducted.

Yalem Physics Building

The Charles H. Yalem Physics Building includes research offices for theoretical physicists, laboratories for research in physics, newly developed research areas for investigations in high energy physics and an astronomical observatory.

Athletic Facilities

Memphis Tract

A twenty-six acre area on the east edge of the campus, Memphis Tract contains the Shapiro Athletic Center, Linsey Sports Center, Marcus Field, Gordon Field and Rieger Tennis Courts.

Gordon Field

A running track rings Gordon Field, where the University's track and field squad plays host to teams from throughout the east. The central area provides playing fields for the University's intramural and club football teams and specialized accommodations for intercollegiate field events.

Linsey Sports Center

The Joseph M. Linsey Sports Center includes an Olympic-size swimming pool, squash courts, fencing room and other athletic teaching facilities. Connected to the athletic center, the sports center provides facilities for both the physical education and intercollegiate athletic programs.

Marcus Playing Field

Brandeis has won respect for its soccer talent on Marcus Playing Field, which includes the varsity and practice baseball diamonds and a softball diamond.

Shapiro Athletic Center

Throughout the school year the main gymnasium operates day and night with varsity and intramural competition as well as physical education activities. The gymnasium is also used for public lectures, student dances and major conferences. In addition, classrooms, offices for the physical education faculty, team and physiotherapy rooms and dressing rooms are included in Shapiro Athletic Center.

Rieger Tennis Courts

The Rieger Tennis Courts are used for informal, intramural and intercollegiate tennis competition. They are located to the rear of the Shapiro Athletic Center.

Residence Halls

Campus living accommodations consist predominantly of double rooms, some single rooms and suites. Each residence hall has its own lounge or lounges. Modern laundry facilities and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as desired. Arrangements for linen and towel service may be made through the University. There are nine campus residence areas. Freshmen are assigned rooms in either Massell Quadrangle or Leon Court. Upperclassmen choose accommodations at room drawings held each spring.

East Quadrangle and Swig Student Center

The East Quadrangle residence halls include Hassenfeld House, Rubenstein Hall, Pomerantz Hall, Krivoff House, and Shapiro Brothers Hall. A large central lounge serves all of these buildings, and the entire area is complemented by the Benjamin and Mae Swig Student Center which includes a residence hall, lounge facilities, and a terrace for student social activities. The Swig Student Center is connected to the East Quadrangle by an overhead walk.

Foster Student Living Centre

This complex of undergraduate student housing apartments honors Brandeis Fellow Mrs. Joseph C. Foster of Leominster, Mass., her late husband, who was a Trustee of Brandeis, and other members of the Foster family. The innovative design of the Foster Centre, which is located near the University's athletic facilities, features apartments built around a courtyard-duplex format. Groups of four to six students live in an apartment, each of which is complete with living room, dining room-kitchen, bedroom-study areas, baths, and private entrances. The Foster Centre is made up of four clusters of nine units apiece, providing a total of 36 individual apartments and living accommodations for 186 students.

Charles River Apartments

In order to meet the very substantial need for housing graduate students and married undergraduate students, the University has constructed a cluster of buildings which provides 160 apartments, as well as social facilities and a children's playground. The central building in

this complex is named for Max and Ann Coffman of Brockton, Mass., and a second building is named for Brandeis Fellow Ollie A. and Mrs. Cohen of Miami Beach, Fla. The Dushman-Gornstein Commons Room was given by Hyman Dushman of Brockton, Mass., and the Henry and Doris Gornstein Foundation.

Leon Court

Leon Court has four dormitories and a large student center-dining hall grouped around an attractive, wooded quadrangle. Each dormitory unit contains fully equipped student rooms, a lounge and a large recreation room. Dormitories in this quadrangle are Scheffres, Gordon, Cable and Reitman Halls. The student dining hall is Milton and Hattie Kutz Hall.

Massell Quadrangle

Massell Quadrangle consists of Shapiro, DeRoy, Renfield and Usen Residence Halls, and the Sherman Student Center. Each unit has functionally equipped rooms with maximum living and closet space. Ground floor lounges overlook the central quadrangle and the walks encircling Anne J. Kane Reflecting Pool.

Ridgewood Quadrangle

Emerman, Fruchtman, Danciger, Allen and Rosen Residence Halls comprise the University's living areas for students on the south campus. Each hall has two lounges opening on the quadrangle.

Rosenthal Dormitories

Adjacent to the Massell Quadrangle are three dormitories consisting of suites which accommodate a total of 168 students.

Usen Castle

An imposing structure designed after medieval architecture and completed a decade before Brandeis was founded, the Irving and Edyth Usen Castle has been remodelled into single, double, and larger rooms. Its ground floor houses the student-operated coffee shop, *Cholmondeley's*. On the second level of the Usen Castle is the Usen Commons, a circular, conservatory-style lounge, used for dances and social functions. Greater Boston spreads out in a panoramic view from the windows of Usen Commons. Major renovations to the Castle were completed in 1977. The Castle has been listed in the National Register of Historic Places.

Schwartz Residence Hall

This companion structure to the Usen Castle dormitory houses rooms and a lounge, furnished in contemporary style. Schwartz Hall has also been recently renovated.

Student Centers

Sherman Student Center

The glass walls of The George and Beatrice Sherman Student Center rise from the ground level to the roof, overlooking Massell Quadrangle and the Kane Reflecting Pool. Its ground floor dining hall serves several hundred students daily. Dances, parties and meetings often occupy the entire building on busy evenings.

Usdan Student Center

The Usdan Student Center complex incorporates student social, cultural, and recreational facilities as well as student personnel and administrative services. It is located close to most teaching, residence and dining facilities, and houses an assembly and banquet hall seating 1,000 people, the University bookstore, mailroom, campus cafeteria, lounges and conference rooms for formal and informal student affairs. The Student Affairs staff maintains a broad program of cultural, social, and educational events. The office of the Director of Residence Life, and the Director of Student Affairs offices, the Registrar and class advisers, occupy the northeast wing of the building. The center also houses student clubs and organizations, social areas, music listening and reading rooms, the campus radio station (WBRS-FM), *The Justice* (the student newspaper) and Student Senate offices, as well as billiards, table tennis, and other recreational areas. In addition to the main building, the Usdan Student Center includes the Gluck, Scheinfeld, Winer and Wuliger Buildings, the Faneuil Recreation Hall, and the Maurice Levin Memorial Hall.

The Three Chapels

The University's three chapels: Berlin (Jewish), Bethlehem (Catholic) and Harlan (Protestant), serve the Brandeis community through services which take place here under the aegis of the Hillel Foundation, the Catholic Campus Ministry and Student Christian Association. Conventional, traditional services as well as innovative and experimental ones are held regularly. The chapels are also used for such ceremonies as marriages, christenings and confirmations. A centrally located outdoor pulpit serves larger gatherings.

Brandeis House

Located in New York City, Brandeis House, a gift of the late Brandeis Fellow Mrs. Frances Spingold, serves as the University's New York office and as a base of operations in New York City for the National Women's Committee, the Alumni, and the Parents' Association. Brandeis House also includes offices for the President and other University staff when in New York City. Renovation costs were underwritten by Mr. Harry Waxman of New York City, a Fellow of the University.

Maintenance Funds

The cost of maintaining buildings and grounds imposes increasingly on general funds. However, funds to help meet these costs have been made available through the generosity of individuals and foundations.

Harry Pearlman Endowment Fund

A portion of an endowed gift to the University by Brandeis Fellow Harry Pearlman of New York has been directed to building maintenance.

David and Irene Schwartz Fund

Under provisions of a grant from the David Schwartz Foundation, funds have been provided for a systematic landscaping of the campus to achieve a harmony between the terrain's natural beauty and the architecture as conceived and executed by some of the nation's noted architectural figures.

Courses of Instruction 1980-1981

The undergraduate courses of instruction under the faculty of arts and sciences are listed below. For detailed information, consult the 1980-81 Course Offerings booklet. Courses meet for three hours a week unless otherwise specified.

a — fall semester course
aR — identical course given in spring semester
aA — full course in fall semester — eight credits
b — spring semester course
bR — identical course given in fall semester
bB — full course in spring semester — eight credits
c — semester course meeting throughout the year
H — Jacob Hiatt Institute course
* — Not to be given in 1980-81

A semester course carries one semester course credit (4 semester hour credits) and a year course, two semester course credits (8 semester hour credits). Exceptions are noted under the individual course descriptions. Certain laboratory courses do not count for rate of work and do not carry course credit toward graduation, although semester hour credits are assigned to them in order to calculate grades earned in these courses in the Grade Point Average. Occasionally, other courses are awarded additional semester-hour credits, yet count as only one semester course toward graduation. All such courses are specifically identified in the course listing. Certain courses require a "c" laboratory course taken concurrently.

A student may take either half of a year course for credit with the approval and consent of the course instructor and the faculty adviser on the appropriate form designated by the Office of the Registrar. Certain courses cannot be dropped with credit at the end of the first semester. Students who enroll in full year courses in the fall term are continued in the spring term automatically without having to file an additional course enrollment card.

The University reserves the right to make any necessary changes in the offerings without prior notice. Faculty and course listings are accurate as of June 1, 1980.

Students should refer to the section Officers of Instruction of this catalog to determine the leave status of Brandeis faculty members for the 1980-81 academic year.

Course Abbreviations

AAAS — African and Afro-American Studies
AKKAD — Akkadian
AMSTD — American Studies
ANTHR — Anthropology
ARAB — Arabic
ARAM — Aramaic
BCHEM — Biochemistry
BIOPH — Biophysics
BIOSC — Biological Science
BIOL — Biology
BCOMP — Basic Composition
CCIV — Classical Civilization
CHEM — Chemistry
CHEMSC — Chemical Science
CHINE — Chinese
CHIST — Comparative History
CLASS — Classics
CLORS — Classical and Oriental Studies
COLIT — Comparative Literature
COPT — Coptic
COSCI — Computer Science
DC — Dean's Course

ECON — Economics
ED — Education
EGYPT — Egyptian
ENCLA — English and Classics
ENG — English
ENVST — Environmental Studies
EULIT — European Literature
FA — Fine Arts
FREN — French
FWS — Freshman Writing Seminar
GER — German
GSCI — General Science
GREEK — Greek
HEB — Hebrew
HIST — History
HIDEA — History of Ideas
HITT — Hittite
HUM — Humanities
INCON — Independent Concentration
ITAL — Italian
JCS — Jewish Communal Service
LAS —Latin American Studies
LASP — Latin American Studies Program
LATIN — Latin
LEGAL — Legal Studies
LING — Linguistics
LIT — Literature
MATH — Mathematics
MEVAL — Medieval Studies Program
MUSIC — Music
NEJS — Near Eastern and Judaic Studies
PE — Physical Education
PHBIO — Photobiology
PHIL — Philosophy
PHSCI — Physical Science
PHYS — Physics
PLING — Psycholinguistics
POL — Politics
PREMD — Premedical Program
PSYCH — Psychology
RUS — Russian
SOC — Sociology
SOVST — Soviet Studies Program
SOWEL — Social Welfare
SPAN — Spanish
SUMER — Sumerian
THA — Theater Arts
UGAR — Ugaritic
URBST — Urban Studies Program
WOMEN — Women's Studies Program
Y — Yiddish

Dean's Courses

DC 73E (HIST 80a) Introduction to East Asian Civilization

***DC 75D (PHIL 75b)** Science and Ethics

***DC 75F (POL 196b)** Contemporary Political Thought

DC 75G (ANTHR 37a) Modes of Thought

DC 76D (LING 194bR) (PHIL 194bR) (PSYCH 194bR) Language and Mind

DC 77D (PHIL 139a) Human Rights

***DC 77F** Modernism: Strategies, Objects, Theories

DC 77G (HIST 133a) The Enlightenment

***DC 77H (CLASS 27bR)** The Homeric Epic

***DC 78D (ANTHR 104b) (CLASS 104b)** Hesiod's *Theogony:* Convergent Approaches of Classics and Anthropology

***DC 78E (PSYCH 60b)** Human Experimentation: Ethical, Moral, and Legal Issues in the Use of Human Subjects in Biomedical and Behavioral Research

***DC 78F (COLIT 193a)** Native American Literature

***DC 78G** Thinking About Women

DC 78H (SOC 122a) Sociology of Power

DC 79D (CLORS 103a) (NEJS 103a) Introduction to Islamic Civilization and Institutions

DC 79E (ANTHR 106b) (PSYCH 106b) Friendship

DC 79F (ANTHR 20b) The Development of Human Food Production

***DC 79G (ANTHR 104aR) (CLASS 104aR)** Hesiod's *Works and Days:* Convergent Approaches of Classics and Anthropology

***DC 79H (RUS 148aR)(THA 148aR)** A Survey of Russian Theater from 1719 to 1917

DC 79J (MUSIC 57b) Structuralism and Semiotics

***DC 79L (RUS 148b, THA 148b)** Survey of Russian Theater: Chekhov to Present

DC 80D (GER 190b) Vienna at the Turn of the Century

DC 80E (HIDEA 133b, HIST 133b) Topics in 19th and 20th Century Intellectual History

UNIVERSITY STUDIES

CREATIVE ARTS

Students in the class of 1984 and all subsequent classes must complete two semester courses in the School of Creative Arts, not more than one of which may be in Theater Arts.
All courses in Fine Arts satisfy the requirement except reading courses (FA 97a,b: 98a,b; 99).
All courses in Music satisfy the requirement except reading courses and labs (MUSIC 50c, 62c, 96c, 97c, 98a, b, 99, 134c, 163c, 165c).

In Theater Arts

The following courses satisfy the University Studies Requirements:
THA 1a and 1b; THA 2a and 2b; THA 22; THA 26; THA 104; THA 122a; THA 123b; THA 126bR; THA 157b; THA 165a; THA 171a; THA 180a; THA 180b.

All other Theater Arts courses do NOT meet the Creative Arts component of University Studies in the Creative Arts and are so noted in the special notes.

HISTORY

Students in the class of 1984 and all subsequent classes must complete one semester course in the History program of University Studies.
The following courses to be offered in 1980-81 will satisfy this requirement.

UHIST 10a (HIST 1a) Climate and Society

UHIST 11a (HIST 2a) An Economic History of the Western World from the 18th Century to the Present.

***UHIST 12a (HIST 3a)** Russia and the West

UHIST 13a (POL 184a) Utopia and Power in Modern Political Thought

UHIST 14a (HIST 198bR) Science and Technology in the 20th Century

UHIST 15b (ANTHR 17b) Population, History and Society

UHIST 16b (HIST 1b) Europe and the Wider World

UHIST 17b (HIST 2b) Revolution and Modernization

UHIST 18b (HIST 3b) Modern Europe in Cultural Perspective

UHIST 19b (HIST 6aR) Doing History

UHIST 20b (HIST 4b) Survey of History of Science

UHIST 21b (PHIL 9b) Philosophical Issues in Modern Europe

UHIST 22b (AAAS 18b) Africa and the West

HUMANITIES

All students in the class of 1984 and subsequent classes must complete one semester course from Humanities Step One (UHUM1) and one semester course in Humanities Step Two (UHUM2), normally in that order. No student not a freshman in 1980-81 is permitted access to University Studies courses in the School of Humanities with the following exceptions: upperclassmen (including transfer students) may satisfy distribution requirements in 2 and only 2 University Studies courses: UHUM1 10a (Grossman) and UHUM1 17a (Johnson).

UHUM1 10a (HUM 10a) The Structure of the Human World: Antiquity

UHUM1 11a The Structure of Tradition: Antiquity

UHUM1 12a Modes of Integrity

UHUM1 14a Thinking About Adversity

UHUM1 15a Blood Cultures: Ethos and Alternatives

UHUM1 16a Metaphors for the Real World

UHUM1 17a (HUM 17a, PHIL 3a) Philosophical Ideas in Western Civilzation: I

UHUM1 18a Destructive Friends, Constructive Aliens

UHUM1 20a Origins, Ideals and Reality

UHUM1 21a Man's Encounter with "THE OTHER" in Western Antiquity

UHUM1 22a Man's Encounter with Evil

UHUM1 23a The Laws of God and the Laws of Men

UHUM1 24a Conceptions of World, Man, and God in Antiquity

UHUM1 25a Inventing History

UHUM1 13b Confronting Fate in Antiquity

UHUM2 40b The Structure of the Human World: Modernity

UHUM2 41b The Struggle for Redemption

UHUM2 42b Radical Skepticism from Augustine to Becket

UHUM2 43b Charting the Void

UHUM2 44b Man, Human Nature, and Society in European Literature

UHUM2 45b Man's Place and the Locus of Values

UHUM2 46b Masterpieces of Western Civilization

UHUM2 47b Philosophical Ideas in Western Civilization: II

UHUM2 48b Energy and Its Tranformation In European Literature

UHUM2 49b Making Up the World

UHUM2 50b Outcasts

UHUM2 51b " 'I KNOW WHO I AM', replied Don Quixote"

SCIENCE

Students in the class of 1984 and all subsequent classes must complete one of the three options listed on page 8 in order to satisfy the University Studies Requirements in the Sciences. Courses that do NOT meet any of the options in the sciences are so identified in the special notes, for example, MATH 5a. Also laboratory courses which do not count for rate of work do not meet the science options in University Studies.
The following courses have been approved by the Committee on University Studies in the Sciences as particularly appropriate for students in fields of concentration outside the sciences:

For Option 2(a)

CHMSC 1a Chemical Science: Changes of Matter and Energy

ENVST 8a Energy: Science, Applied Science and Society

PHSCI 2bR Introductory Astronomy

CHMSC 2b Chemical Science: The Splitting of the Atom

PHSCI 1b Concepts in Modern Electronics

PHSCI 2b Introductory Astronomy

PHSCI 3b (PHIL 60b) Twentieth Century Physics

For Option 2(b)

BCHSC 1a From DNA to Enzyme Mechanisms

BIOSC 7a The Biology of People

BIOSC 3aR Research Case Studies

For Option 3(a)

MATH 1a Introduction to Mathematical Concepts

MATH 8a Introduction to Probability

MATH 1aR Introduction to Mathematical Concepts

MATH 8aR Introduction to Probability

Students in the class of 1984 and all subsequent classes must complete two semester courses in the School of Social Science excluding History. The Social Science courses currently available to satisfy the Social Science distribution requirement (other than those in History) shall be used for the University Studies Program in Social Science.

Field Study

During their junior or senior year, undergraduates may undertake a substantial research project in certain fields of concentration *in lieu* of four semester courses. Research may be conducted either on campus or in the field — execution of the project may involve prolonged absence from the Brandeis campus — at another institution, Government agency, etc. The Field Study project must have the approval of the student's department of concentration. The project will be supervised by a faculty adviser assigned by the department and a second member of the faculty will participate in one evaluation of the student's work and the assignment of a grade. Work in the project may occupy a full semester (then to be recorded as 90a or b) or it may be of two semesters' duration (to be recorded as 90). In the latter case the two semesters must be consecutive. A student may receive no more than four semester course credits for field study. The student may offer no more than two semester-course credits from the Field Study course toward his department's concentration requirement. Interested students should explore the possibility of Field Study in their concentration with a faculty member in the appropriate department.

AFRICAN AND AFRO-AMERICAN STUDIES

Associate Professor Wellington Nyangoni, *Chairman;* Assistant Professors Gwendolyn Lewis, Duane R. Taylor; Instructor Ronald F. Ferguson; Lecturer Robert C. Jones.

Requirements for Concentration

A. Required of all candidates: eight semester courses in AAAS, one of which will be AAAS 5a.

B. At least one course will be taken in each of the following areas: Social Science, Humanities, and History.

C. At least four courses will be taken in one of the following disciplines as a field of specialization: Literature, Music, History, Political Science, Sociology, Economics, Education. A candidate may elect a five-course interdisciplinary focus on Africa or Afro-America as a specialization.

D. Candidates must take five of the required eight courses within the Department.

E. Candidates for departmental honors must complete AAAS 99.

Thirty-two courses are required for the B.A. degree. After completion of Departmental requirements, the remaining course selections are "electives." Students may ask for guidance in the selection of courses with related content, approach, or within their chosen discipline.

AAAS 5aR Introduction to African and Afro-American Studies

AAAS 14a Freshman Seminar: "The Excluded Society"

AAAS 18b Africa and the West

AAAS 50a Black Political Economy

***AAAS 70a (AMSTD 70a) (HIST 70a)** Introduction to Afro-American History

***AAAS 72a (MUSIC 70a)** A History of Jazz

AAAS 98a,b Readings, Research, Community Involvement

AAAS 99 Senior Research

AAAS 101aR The Black Family in America

AAAS 104a (MUSIC 31a) Black Lifestyles Through Music

AAAS 105b (MUSIC 31b) The Music of Black Americans

AAAS 115a Introduction to African History

AAAS 116bR (SOC 116bR) Comparative Ethnic Relations

AAAS 121a (SOC 120a) Sociology of Underdevelopment I

AAAS 121b (SOC 120b) Sociology of Underdevelopment II

AAAS 122b Black Political and Social Thought

***AAAS 125a (POL 125a)** Political Development in the Black Community I

AAAS 125bR (POL 125b) Political Development in the Black Community II

AAAS 129a Aging in the Third World

AAAS 130a Black Literature from the Plantation to Harlem

AAAS 130b Black Literature: From Harlem to the Present Day

AAAS 132bR Introduction to African Literature

AAAS 133b The Literature of the Caribbean

***AAAS 135a (THA 145a)** Black Drama I

***AAAS 135b (THA 145b)** Black Drama II

AAAS 140aR Public Policy Perspectives on Economic Problems of Afro-Americans

AAAS 145aR Oral Tradition: The Psychology of Black Survival

AAAS 155a Slavery in America

AAAS 156aR The Civil Rights Revolution in the U.S., 1945-1970

***AAAS 160a (POL 140a)** The Politics of Africa

AAAS 161a (POL 141a) National and International Politics of Southern Africa

AAAS 162a Contemporary African Political Thought

AAAS 163bR (POL 141bR) Africa in World Politics

AAAS 167aR Comparative Black Political Systems: Africa and the Caribbean

AAAS 171a Women and Development

AAAS 176b Issues in Third World Development

AAAS 192b Political Economy of the Third World

AMERICAN STUDIES

Associate Professor Jacob Cohen, *Chairman;* Professors Lawrence H. Fuchs*, John F. Matthews*; Visiting Professor Saul Touster; Associate Professors William M. Goldsmith, Stephen J. Whitfield; Assistant Professor Joyce Antler; Lecturer Peter D. Witt *(Director, Education Program);* Adjunct Lecturer Stephen Schiff; Instructor Blanche M. G. Linden.**

* On Leave, Fall Term 1980-81
*** On Leave AY 1980-81

Nature of the Program

An interdisciplinary approach to American culture (myths, values, ideas, institutions, and behavior), and to the questions raised by the influence of American society in shaping the modern world. Students work closely with staff in developing an individualized plan of study by the end of the sophomore year or early in the junior year. Either an extensive senior paper or participation in the department seminar program is required of all concentrators as the culmination of their work in the Department.

Special opportunities can be provided for supervised field work.

Many students study aboard in their junior year to gain cross cultural perspective.

Requirements for Concentration

Required of all candidates: (A) American Studies 10a or 10aR; (B) American Studies 102a and 102b or their approved equivalents; (consult advisor); (C) either a specially designed American Studies seminar or American Studies 99; (D) the equivalent of six semester courses in American Studies, chosen either within the Department or elsewhere with departmental approval.

The consent of the instructor is required for American Studies 97 a/b and American Studies Department Seminars. The consent of the Department is required for American Studies 99.

Students who wish to double-major may offer up to two approved courses from the other major in satisfying departmental requirements.

AMSTD 8a,aR (ENG 6a,aR, HUM 4a,aR) American Literature from 1832 to 1900

AMSTD 9a,aR (ENG 7a,aR, HUM 4b,bR) American Literature from 1900 to 1965

AMSTD 10a Problems in American Civilization

AMSTD 70a (AAAS 70a, HIST 70a) Introduction to Afro-American History

AMSTD 90a Independent Study

AMSTD 97a,b Readings in American Studies

AMSTD 99 Senior Honors Research

AMSTD 100a Classic Studies of American Civilization Through 1914

AMSTD 100b Classic Studies of American Civilization: The Twentieth Century

AMSTD 101b American Reactions to Europe: 1780-1970

AMSTD 102a Patterns of American Life to 1865

***AMSTD 102b** Patterns of American Thought: 1865-Present

***AMSTD 104aR (HIST 168aR)** Between the Past and the Present: American Culture 1890-1917

AMSTD 104b American Political and Social Thought Since World War II

AMSTD 105aR Nature and the American Experience

***AMSTD 106b** Brave New World: Science and Technology in America, 1890-1970

AMSTD 108a American Political Culture Through 1865

AMSTD 108b American Political Culture 1865 to Present

AMSTD 109a (LEGAL 101a) The Legal Process: Laws and Public Policy

AMSTD 109b (LEGAL 102aR) Topics in Law and Society

AMSTD 110b Department Seminar: Freedom and Equality: Presidential Decision-Making

AMSTD 111a The Structure of Power and the Political Process

***AMSTD 112a** Strategies of Political and Social Change: The Agrarian Revolt and the Progressive Era

***AMSTD 112b** Strategies of Political and Social Change: The Great Depression and the New Deal

AMSTD 114bR Aspects of the American Character

***AMSTD 115aR** The University in America

***AMSTD 117a** Twentieth Century American Biography

***AMSTD 120a** Law and Society

AMSTD 122a (FA 122a) American Architecture and Painting

***AMSTD 123a** Women in American History to 1865

AMSTD 123bR Women in American History: 1865 to the Present

AMSTD 124b Department Seminar: American Love and Marriage: Historical Perspectives

***AMSTD 125a (ENG 38a, THA 125a)** History of American Drama 1665 to 1919

AMSTD 125b (ENG 37b, THA 125b) History of American Drama: 1919 to the Present

AMSTD 127a (ECON 22a, HIST 155a) American Economic History

***AMSTD 128a** The Civil War Era I

***AMSTD 128b** The Civil War Era II

AMSTD 133b The American West in Myth and Reality

***AMSTD 135b (THA 135b)** The History of Popular Arts in America

AMSTD 137b Studies in American Journalism

AMSTD 142b History of Photography in America

AMSTD 144b Modern American Humor

AMSTD 145bR Department Seminar: Freedom and Equality: American Political Novel

***AMSTD 148b** Mark Twain and His America

AMSTD 149a Introduction to American Film

***AMSTD 150bR (SOC 172bR)** The Family in the United States

AMSTD 152a The Environments and Landscapes of America: Colonies to the Present

***AMSTD 156a (ENG 156a)** Dissent in American Literature: From the Revolution to the Civil War

AMSTD 158a (ANTHR 158a) Urban Anthropology

AMSTD 163b The Sixties: Continuity and Change in American Culture

***AMSTD 165aR** Women and Autobiography

***AMSTD 165b** Mass Communication in America

***AMSTD 167a** The Political Philosophy of American Liberalism

***AMSTD 169aR** Religion and Ethnicity in American History

AMSTD 170a The Idea of Conspiracy in American Culture

***AMSTD 175aR** Violence in American Life

AMSTD 180b Problems in American Education

AMSTD 185bR (HIST 168bR) American Political and Social Thought Since World War II

AMSTD 188bR Department Seminar: Freedom and Equality: Boston: History, Culture and Urban Problems

***AMSTD 197a** Department Seminar: Freedom and Equality: Civil Rights and the American Constitution

ANTHROPOLOGY

Associate Professor Robert C. Hunt, *Chairman*; Professors Helen Codere*, George L. Cowgill*, David Kaplan, Robert A. Manners (Emeritus), Marguerite S. Robinson*; Associate Professors Judith T. Irvine***, David Jacobson, Benson Saler; Assistant Professors Marvin Davis, Judith F. Zeitlin****, Robert N. Zeitlin****; Lecturer Pierre-Yves Jacopin; Instructor D. Neil Gomberg.**

* On Leave, Fall Term, 1980-81
*** On Leave AY 1980-81
**** On Leave half-time Spring Term 1980-81

The Department of Anthropology offers a wide range of courses covering the discipline's four major subfields and archaeology. Many courses do not have prerequisites and are open

to concentrators and non-concentrators alike. The concentration structure provides an introduction to the major concepts, methodologies and theoretical issues of Anthropology, while permitting each student sufficient latitude to pursue his or her own special interests. Faculty advisors are available to help students plan course selections, and this consultation is especially important for those interested in a particular subfield. We encourage concentrators to select honors research projects, particularly those students considering graduate study in Anthropology or other professional training.

Requirements for Concentration

A. Required of all concentrators: A minimum of nine semester courses in Anthropology, to include ANTHR 1a, 83a and either 2a or 3b.

B. Honors candidates are required to take ANTHR 99 in addition to the above nine courses.

C. A student may petition to have a course taken in another department replace one Anthropology course requirement, provided that course is clearly related to the student's program.

D. A minimum of five of the nine courses required for the concentration must be taken from Brandeis Anthropology faculty.

Linguistic and Anthropology Track

The following alternative track is recommended to Anthropology concentrators with a special interest in linguistics. The purpose of this program is to introduce major issues and ideas in the study of language, the study of sociocultural systems, and the study of relations between language, society, and culture. Concentration requirements for students who choose this track are as follows:

A. ANTHR 1a and 83a.

B. ANTHR 102a and 102b.

C. A minimum of three other Anthropology courses chosen from those listed in the departmental offerings.

D. A minimum of two other linguistic courses from the LING listing (selection to be approved by the student's faculty advisor in Anthropology).

E. Candidates for a degree with honors should enroll in ANTHR 99 during their senior year.

Archaeology Track

The following course of study is a suggested set of guidelines for Anthropology concentrators with a special interest in archaeology:

A. ANTHR 1a, 2a, 3b, 83a, 109b, 123a.

B. Three or more courses selected from the following list: ANTHR 40b, 41a, 122a, 130 (CLORS 111), 131 (CLORS 122), 132b (CLORS 124b), 134b (CLORS 117b), 138b, (CLORS 135b), 140a, 146a, 147b, 148a, 149 (CLORS 119), 177b, 185a, 186a, 186b, 188a, 188b. Also CLORS 10, 116a, 125b. Full-year courses will count as two semester-long courses.

C. Two or more additional courses from those listed in the Anthropology Department offerings.

D. Candidates for a degree with honors must enroll in ANTHR 99 during their senior year.

Students interested in archaeology should arrange their program in consulation with Messrs. Cowgill or Zeitlin or Ms. Zeitlin.

ANTHR 1a,aR Social Anthropology

ANTHR 2a (CLORS 2a) The Development of Prehistoric Societies

ANTHR 3b Introductory Physical Anthropology

***ANTHR 4a** Freshman Seminar: Anthropological Research

***ANTHR 5a** Freshman Seminar: Justice: A Comparative Perspective

***ANTHR 15b** The Family in Cross-Cultural Perspective

ANTHR 17b Population, History and Society

ANTHR 19b Egalitarian Societies

ANTHR 20b (DC 79F) The Development of Human Food Production

ANTHR 22Hb Archaeological Field Methods

ANTHR 23Hb Culture of the Bedouin

***ANTHR 24b** Ecological Perspectives on Culture

ANTHR 37a (DC 75G) Modes of Thought

***ANTHR 40b (CLORS 40b)** Earliest Civilizations of the Near East

***ANTHR 41a** Prehistoric Civilizations of Middle and South America

***ANTHR 43a** Conceptions and Misconceptions in Physical Anthropology

ANTHR 83aR Anthropological Enquiry

ANTHR 90 Independent Field Study

ANTHR 98a,b Readings in Anthropology

ANTHR 99 Senior Honors Research

***ANTHR 102a** Anthropological Linguistics I

***ANTHR 102b** Anthropoligical Linguistics II

***ANTHR 103b** Language, Society and Culture

***ANTHR 104aR (CLASS 104aR, DC 79G)** Hesiod's *Works and Days*

***ANTHR 104b (CLASS 104b, DC 78D)** Hesiod's *Theogony:* Convergent Approaches of Classics and Anthropology

ANTHR 105a Symbol, Myth and Ritual

ANTHR 106b (PSYCH 106b, DC 79D) Friendship

ANTHR 109b (CLORS 120b) Archaeological Methods

***ANTHR 110a** Human Evolution

***ANTHR 111a** Introduction to Primate Studies

***ANTHR 112b** Evolution and Natural Selection

ANTHR 113a Human Variation

ANTHR 115aR Biocultural Adaptation

ANTHR 120b Anthropology of Law

ANTHR 122a (CLORS 149a) The World Before Civilization

ANTHR 122Hb Archaeological Field Methods

ANTHR 123a (CLORS 121a) Directions and Issues in Archaeology

ANTHR 126a Kinship

***ANTHR 129b** The Evolution of Culture and Society

ANTHR 130 (CLORS 111) The Archaeology of Syria-Palestine

ANTHR 131 The Archaeology of Anatolia

***ANTHR 133a** Modern Africa

ANTHR 133b Anthropological Fieldwork

ANTHR 134 (CLORS 117) The Archaeology of Mesopotamia and Iran

ANTHR 135bR Peoples and Cultures of India

***ANTHR 139b** Biography and Culture

***ANTHR 140a** Prehistory of North American Indians

***ANTHR 141b** The American Indian

***ANTHR 143b** Modern Cultures of Middle America

***ANTHR 144a** Indians of South America

ANTHR 146a (CLORS 146a) Environment and Archaeology

ANTHR 147b Archeology and Ethnohistory of Mesoamerica

ANTHR 148aR (CLORS 148aR) Rise, Function and Fall of Early Civilizations: Concepts and Explanations

***ANTHR 149 (CLORS 119)** The Archaeology of the Aegean

ANTHR 151a Social Organization I

ANTHR 151b Social Organization II

ANTHR 152bR Economic Anthropology

***ANTHR 153a (FA 195a)** Primitive Art

ANTHR 153bR (MUSIC 180bR) Ethnomusicology

ANTHR 154a Comparative Religion

ANTHR 154b Selected Topics in Comparative Religion

ANTHR 155b Psychological Anthropology

***ANTHR 156a** Political Anthropology

ANTHR 158a (AMSTD 158a) Urban Anthropology

***ANTHR 158b** Selected Topics in Urban Anthropology

***ANTHR 161b** Culture and Cognition

***ANTHR 165a** Modernization and Social Change

ANTHR 166a The Nature of Human Nature

***ANTHR 170a** Peasant Cultures: Past and Present

***ANTHR 171a** The Comparative Method

ANTHR 175a Pro-Seminar in Anthropological Theory I

ANTHR 175b Pro-Seminar in Method in Cultural Anthropology II

***ANTHR 177b** Archaeological Method and Theory

***ANTHR 180b** Historical Anthropology

***ANTHR 185a (CLORS130a)** Mathematical and Computer Methods in Archaeology

ANTHR 186a (CLORS 131a) Mathematics and Computers in Archaeological Data Analysis I

ANTHR 186b (CLORS 131b) Mathematics and Computers in Archaeological Data Analysis II

ANTHR 188a Materials in Ancient Societies

***ANTHR 190a** Comparative Social Stratification

***ANTHR 193b** Research Design

ANTHR 194a (COLIT 193a, DC 78F, ENG 168a) Native American Literature

BIOCHEMISTRY

Professor Robert H. Abeles, *Chairman;* Professors Gerald D. Fasman, David M. Freifelder*, William P. Jencks, Lawrence Levine, John M. Lowenstein, Susan Lowey (Rosenstiel Center), Alfred G. Redfield (Rosenstiel Center), Serge N. Timasheff, Helen Van Vunakis; Associate Professors Thomas C. Hollocher, Jr.**, William T. Murakami, Robert F. Schleif, Pieter C. Wensink (Rosenstiel Center); Assistant Professors Vivian Ernst, Christopher Miller.**

** On Leave, Spring Term, 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

A. Required of all candidates: One year each of general chemistry (excluding CHEM 10 except by departmental permission) with laboratory and organic chemistry with laboratory; one semester each of BCHEM 100, 21, and 42 or, 103 or 104; two electives from the School of

Science; and one year of physical chemistry or first semester physical chemistry plus BCHEM 50. Introductory courses without prerequisites and courses numbered 90-99 are excluded from use as electives. Physical chemistry laboratory is optional. AP credit or advanced standing awarded by the Chemistry Department can stand in lieu of general chemistry.

B. Honors Program: *A.* plus one year each of BCHEM 101 and 99, submission of an acceptable research dissertation, and a grade point average of 3.0 in the sciences and mathematics. BCHEM 99 may not exceed three semester course credits. Petition is made at the beginning of the senior year.

C. Combined B.A./M.A. Program: *A.* and *B.* plus one summer in research residency, two one-semester 100-level courses approved by the Department and grades of B or better in the 100-level science courses and in research. Petition is made to the Department and Graduate School no later than 1 July preceding the senior year and all work must be completed by the time the B.A. is awarded. A substantial research contribution is required and, if a dissertation is found unacceptable under this program, it will automatically be considered under the Honors Program.

It is advisable, in order to complete *B.* or *C.* above, to gain exemption where possible from introductory courses in science and mathematics. This is especially important for the premedical student who must also fulfill requirements imposed by medical schools.

BCHEM 1a From DNA to Enzyme Mechanisms

BCHEM 21a Introduction to Molecular Biology

BCHEM 42b Biochemical Thermodynamics

BCHEM 50bR Elementary Physical Biochemistry

BCHEM 89b Biochemical Toxicology

BCHEM 99a,b/99aA,bB Research for Undergraduates

BCHEM 100a,aR Introductory Biochemistry

BCHEM 101a,b Advanced Biochemistry

BCHEM 103a Advanced Molecular Biology

BCHEM 104b (BIOPH 104b) Introduction to Physical Biochemistry

BIOLOGY

Associate Professor Attila O. Klein *Chairman;* Professors Carolyn Cohen (Rosenstiel Center), David J. DeRosier (Rosenstiel Center), Herman T. Epstein, Chandler M. Fulton, Harlyn O. Halvorson (Director, Rosenstiel Center), Alfred Nisonoff (Rosenstiel Center), Andrew G. Szent-Gyorgyi*; Associate Professors James E. Haber (Rosenstiel Center), Jeffrey C. Hall*, John E. Lisman, Michael Rosbash (Rosenstiel Center); Assistant Professors L. Edward Cannon (Rosenstiel Center), Gordon Hankinson (Adjunct), Kathleen Karrer, Eve Marder, Joan L. Press (Rosenstiel Center), Robert D. Stout (Rosenstiel Center), Judith E. Tsipis (Adjunct), Lawrence J. Wangh, Kalpana P. White.**

* On Leave Fall Term 1980-81
*** On Leave AY 1980-81

Photobiology

Professor Jerome A. Schiff, *Chairman;* Professors Martin Gibbs, Albert Kelner.

Requirements for Concentration

A. Required of all candidates: BIOL 12a,b; 20a, 21b; BCHEM 100a or aR; CHEM 10a,b or 11a, 31b or 15a with 18a, 38b or 19a; CHEM 21b, 22a with 27b, 28a; MATH 10, 11 or 12; PHYS 10a,b with 18a,b or 11a,b with 19a,b; and four elective courses chosen from the following: Biology and Biochemistry Departments, any offering of the Biophysics Program, Chemistry 41 (exluding courses numbered 90-99).

B. Premedical and predental requirements: BIOL 12a,b; 20a and 21b will satisfy the general biology entrance requirement of most medical schools. Students applying to medical or dental schools who have taken CHEM 15a and CHEM 19a must take another semester of inorganic or physical chemistry with laboratory to satisfy the inorganic chemistry requirement for these schools.

C. Joint Biology-Chemistry Option: A student may graduate with a joint major in Biology and Chemistry if in addition to BIOL 12a,b, 20a, 21b, one Biology elective and BCHEM 100 she/he elects: CHEM 41a,b and 49a,b, 121a; PHYS 31a or MATH 20a or 21a.

D. Biophysics Option: To encourage students wishing to concentrate in Biology to acquire the extra mathematical, physical, and chemical background needed for the area of Biophysics, the Department offers an option which contains a reduced number of biology courses and an increased number of courses in the other science areas. Students will take: MATH 10a, and 19b *or* 10b, *or* 12 and 20 *or* equivalent; CHEM 10, 11a, 31b or 15 with 18a, 38b or 19a,b and 21b, 22a with 27b, 28a and 41a,b; PHYS 10a,b or 11a,b with 18a,b or 19a,b and 20a,b, BIOL 20a and 21b and three courses chosen from among BIOL 32a, 42a, 102a, 104a, 142a, BCHEM 100a or aR, 42b; PHYS 152b.

E. Biochemistry Concentration: There is a biological option open to students concentrating in Biochemistry. Such students will be advised jointly by members of both departments. For details see Biochemistry concentration requirements.

F. Advanced Standing: Credit for a year of Biological Science will be awarded upon successful completion of the Advanced Placement Examination with a grade of 3, 4 or 5. In order to concentrate in Biology, however, any such candidate must also pass a departmental examination (given each Fall during the first week of classes) which is equivalent to the final examinations given in Biology 12a,b, 20a and 21b.

A student is eligible for advanced standing in any course in the Biology Department if she/he is (a) recommended for advanced standing by the staff member teaching the course in question and (b) if this recommendation is approved by the Biology staff. Minimum requirement is the satisfactory passing of an examination equivalent to the final examination normally administered for the course for which advanced standing is requested.

G. No course offered for concentration requirements in Biology may be taken on a pass/fail basis.

Satisfactory grades (C or above) must be maintained in all Biology courses offered for concentration, and no more than one D will be allowed in any other course offered toward the requirements in this Department.

H. Senior Honors Program: Students who wish to be considered a candidate for honors in Biology should have a generally satisfactory academic record and 3.3 grade point average in

Biology and required science courses. Laboratory research (Biology 99) is the main component of the honors program. A candidate is required to petition the Biology staff at the beginning of her/his senior year. Detailed instructions are available in the Biology Office.

I. Students who entered the University with the classes of 1981, 1982 or 1983 may use concentration requirements as given in the catalog in use at their admission date.

BIOSC 1a Humanistic Biology

BIOSC 3aR Research Case Studies

BIOSC 7a The Biology of People

BIOL 12a,b General Biology Laboratory

BIOL 20a Cell Biology

BIOL 21b Genetics and Molecular Biology

BIOL 32b General Microbiology

BIOL 42aR Animal Physiology I

BIOL 43b Animal Physiology II

BIOL 44a Brain and Behavior Development

BIOL 61a Developmental Biology

BIOL 71b Pathogenesis of Bacterial Infections

BIOL 75a Introduction to Immunobiology

BIOL 98a,b Readings in Biology

BIOL 99a,b Senior Research

BIOL 100a (BIOPH 100a, PHBIO 100a) Photobiology of Cells and Organelles I

BIOL 100b (BIOPH 100b, PHBIO 100b) Photobiology of Cells and Organelles II

BIOL 102b (BIOPH 102b) Structural Biology

BIOL 121a Advanced Genetics

BIOL 135b Biological Rhythms

BIOL 142a Neurobiology

BIOL 150aR Gene Structure and Function

BIOL 161b Developmental Genetics

BIOL 175b Advanced Immunobiology

PHOTOBIOLOGY

PHBIO 32b (BIOL 32b) General Microbiology

PHBIO 100a (BIOL 100a, BIOPH 100a) Photobiology of Cells and Organelles I

PHBIO 100b (BIOL 100b, BIOPH 100b) Photobiology of Cells and Organelles II

BIOPHYSICS

BIOPH 100a (BIOL 100a, PHBIO 100a) Photobiology of Cells and Organelles I

BIOPH 100b (BIOL 100b, PHBIO 100b) Photobiology of Cells and Organelles II

***BIOPH 101a (PHYS 37a)** Biophysical Optics I

***BIOPH 101b (PHYS 37b)** Biophysical Optics II

BIOPH 104b (BCHEM 104b) Introduction to Physical Chemistry

BIOPH 152b (PHYS 152b) Biological Assembly

CHEMISTRY

Professor Colin Steel, *Chairman;* University Professor Saul G. Cohen; Professors Paul B. Dorain, Sidney Golden, Ernest Grunwald, James B. Hendrickson, Kenneth Kustin *(Graduate Advisor),* Henry Linschitz, Myron Rosenblum, Robert Stevenson; Associate Professors Iu-Yam Chan, Emily Dudek *(Adjunct),* Irving R. Epstein, Bruce M. Foxman, Michael J. Henchman***, Peter C. Jordan, Philip M. Keehn, Thomas R. Tuttle, Jr.; Assistant Professors Adrienne Dey *(Adjunct),* Louis Stuhl.**

** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

A. Required of all candidates: CHEM 11a lectures with CHEM 18a laboratory; CHEM 21b lectures with CHEM 27b laboratory; CHEM 22a lectures with CHEM 28a laboratory; CHEM 31b lectures with CHEM 38b laboratory; CHEM 41a,b lectures with CHEM 49a,b laboratory; CHEM 121a or BCHEM 100a; MATH 10a,b, MATH 11a,b or MATH 12a,b; PHYS 10a,b with PHYS 18c or PHYS 11a,b with PHYS 19c.

In addition, one of the following two options:

I. MATH 31a or MATH 15aR; or MATH 15aR and MATH 20a; or MATH 21a,b; or MATH 22a,b.

II. One semester of the MATH courses listed in Option I and either CHEM 121a (if BCHEM 100a has been elected) or one semester of an advanced course in biology or physics.

A suggested four-year program for chemistry concentrators appears in Item G.

B. Requirement for candidates for degrees with departmental honors: eight semester courses in chemistry, including CHEM 121, with a B or higher average in courses offered for concentration.

C. A student who plans to do graduate work in chemistry is urged to take CHEM 121a.

A reading knowledge of a foreign language, although not required for professional undergraduate education in chemistry, is strongly recommended, particularly for students planning advanced study in science. German is especially helpful.

D. A student may graduate with a joint concentration in biology and chemistry if the concentration requirements in chemistry are met and the course of study includes BIOL 12a,b; BIOL 20a; BIOL 21b; BCHEM 100a, and two one-semester elective courses in the School of Science, one of which must be in biology or biochemistry.

E. If the concentration requirements for chemistry are met and the course of study includes BCHEM 100a, BCHEM 21a and BCHEM 42b or 103a or 104b and the appropriate electives in the School of Science, the student will have satisfied the requirements for a joint concentration in chemistry-biochemistry.

F. Candidates for departmental honors may be admitted to a special four-year M.A. program upon recommendation of the Department and the Graduate School.

G. The following constitutes a sample four-year program for concentration in chemistry. In particular, note that it is strongly recommended that PHYS 11 and a semester of mathematics at the 20 level or (preferably) MATH 31a be taken in the sophomore year so that the student may complete CHEM 41a,b lectures and CHEM 49a,b laboratory in the junior year. This program makes it possible for students to take advanced courses and honors work during the senior year. Premedical requirements may be fulfilled within this program by taking a year of biology with laboratory in the junior year. Suggested options are given with alternatives in parentheses.

First Year:	CHEM 11a, CHEM 18a or CHEM 15a, 19a
	CHEM 21b, 27b
	MATH 10, 11, or 12
Second Year	CHEM 22a, 28a
	CHEM 31b, 38b
	PHYS 11 (or 10); PHYS 19b (or 18c)
	MATH 31a, 15aR (or MATH 21a,b; or one semester of biology plus MATH 31a or 15a or 20a or 21a or b)
Third Year	CHEM 41, 49
	(If premed, BIOL 20a, 21b, 12)
Fourth Year	CHEM 121a (BCHEM 100a)
	Honors or electives

General Information

CHEMSCI 1a, CHEMSCI 2b, CHEM 9b, CHEM 11a or CHEM 15a may be used to partially satisfy the University distribution requirement in science.

CHEM 11a (or 15a) and CHEM 31b lectures, with CHEM 18a (or 19a) and CHEM 38b laboratory will satisfy the general chemistry requirements of most medical schools. CHEM 21b and 22a lectures, and CHEM 27b and 28a laboratory, will satisfy the organic chemistry requirements of most medical schools.

Students who entered the University with the classes of 1981, 1982, 1983 may use the requirements for concentration as outlined in the catalog in use on their admission date.

CHEMSC 1a Chemical Science: Changes of Matter and Energy

CHEMSC 2b Chemical Science: The Splitting of the Atom

CHEM 9b Introduction to Chemistry, the Central Science

***CHEM 10a,b** Elementary General Chemistry, Lectures

CHEM 11a,b General Chemistry, Lectures

***CHEM 12a,b** Introductory General Chemistry, Lectures

CHEM 15a Advanced General Chemistry, Lectures

***CHEM 15b** Advanced General Chemistry, Lectures

CHEM 17b Introductory Chemistry Laboratory

CHEM 18a,b, aR General Chemistry Laboratory

CHEM 19a Honors Chemistry Laboratory I

***CHEM 19b** Chemistry Laboratory I

CHEM 21b Chemistry II: Organic Chemistry

CHEM 22a Chemistry III: Organic Chemistry

CHEM 25a,b Organic Chemistry, Lectures

CHEM 27b Chemistry Laboratory II (Revised Curriculum)

***CHEM 28a** Chemistry Laboratory III

CHEM 29a,b Chemistry Laboratory II (Old Curriculum)

***CHEM 31b** Chemistry IV: Inorganic Chemistry

***CHEM 38b** Chemistry Laboratory IV

CHEM 41a,b Physical Chemistry, Lectures

CHEM 49a,b Chemistry Laboratory V, VI

***CHEM 71a** Mathematical Techniques for Chemistry

CHEM 91a Undergraduate Chemistry Seminar

CHEM 95 Directed Studies in Chemistry

CHEM 99 Senior Honors Research

***CHEM 110b** Instrumental Chemical Analysis

CHEM 121a Inorganic Chemistry I, Lectures

***CHEM 129b** Inorganic Chemistry Laboratory

***CHEM 130a** Advanced Organic Chemistry: Structure

***CHEM 131a** Advanced Organic Chemistry: Topics in Structure and Reactivity

CHEM 132b Advanced Organic Chemistry: Spectroscopy

CHEM 133a Advanced Organic Chemistry: Mechanisms

CHEM 134bR Advanced Organic Chemistry: Synthesis

CHEM 141a,b Advanced Physical Chemistry I

CHEM 142bR Advanced Physical Chemistry II

CHEM 143aR Advanced Physical Chemistry II

CHEM 144aR Structure and Spectroscopy

BCHEM 100a, aR Introductory Biochemistry

BCHEM 104b Introduction to Physical Biochemistry

CHINESE

Assistant Professor Ju-hsiang Ch'uan

CHINE 1 Elementary Chinese

***CHINE 2** Intermediate Chinese

CLASSICAL AND ORIENTAL STUDIES

Associate Professor Leonard C. Muellner, *Chairman;* Professors Douglas J. Stewart, Louis V. Žabkar; Associate Professor Ian A. Todd; Assistant Professors Patricia A. Johnston, Martha A. Morrison, William M. Porter, Cheryl L. Walker; Lecturer Cynthia Rose.

Requirements for Concentration in Classics

A. Eight semester courses in Greek and Latin numbered 6 or higher, with at least two in each language.

B. One semester in Greek, Latin, or allied fields, such as approved by the student's advising head.

C. A semester in Greek history and one in Roman history.

D. For honors candidates, Greek or Latin 99.

Requirements for Concentration in Classical Civilization

A. Four semester courses in Greek or Latin numbered 6 or higher.

B. A semester course in Greek or Roman history.

C. A combination of five semester courses selected from among courses taught in the following departments or programs: Comparative Literature, English, Fine Arts, History, History of Ideas, Mediterranean Studies, NEJS, Philosophy, Politics, Romance Languages, and Theater Arts.

Requirements for Concentration in Classical and Oriental Studies

A. Two semesters of Greek or Latin above the second year level.

B. Two semesters of an ancient Near Eastern language above the second year level (Akkadian, Arabic, Egyptian, Hebrew).

C. One semester of Greek or Roman history (CLORS 101a or CLORS 102a).

D. CLORS 165 (History of Mesopotamia) or CLORS 150 (History of Egyptian Civilization) or two of the following three: CLORS 145b (History of Ptolemaic Egypt), CLORS 151b (History of Egypt under Roman Rule), CLORS 11b (History of Israel).

E. CLORS 10 (The Archaeology of the Aegean and the Near East) and CLORS 4a (The Art of Greece and Rome I) or CLORS 4b (The Art of Greece and Rome II).

F. For honors candidates, CLORS 99.

Requirements for Concentration in Oriental Studies

LANGUAGE CONCENTRATION

A. Five semesters of Egyptian or Akkadian language.

B. Greek 1 and Greek 6a (Introduction to Athenian Literature) or Greek 6b (Introduction to the Greek Epic).

C. CLORS 150 (History of Egyptian Civilization).
CLORS 165 (History of Mesopotamia).

D. CLORS 10 (The Archaeology of the Aegean and the Near East).

E. Reading proficiency of Hebrew is strongly recommended.

F. For honors candidates, CLORS 99.

ARCHAEOLOGY/HISTORY CONCENTRATION

A. CLORS 10 (The Archaeology of the Aegean and the Near East), CLORS 120b (Archaeological Methods) and 2 Regional courses in Archaeology.

B. CLORS 150 (History of Egyptian Civilization), CLORS 165 (History of Mesopotamia), CLORS 11b (History of Ancient Israel) and one advanced seminar in history.

C. Proficiency in at least one ancient Near Eastern language — Greek or Hebrew recommended.

D. for honors candidates, CLORS 99.

GREEK 1 Introductory Greek

GREEK 6a Introduction to Greek Literature

GREEK 6b Selections from Homer's *Odyssey*

GREEK 98a,b Directed Reading

GREEK 99 Senior Research

GREEK 116a Aristophanes

GREEK 116b Aeschylus

GREEK 118a Euripides

GREEK 118bR Sophocles

GREEK 120b The *Histories* of Herodotus

***GREEK 180b** Hesiod: *Theogony* Seminar

LATIN 1 Introduction to Grammar

LATIN 1aA Accelerated Introduction and Review

LATIN 6a Introduction to Latin Literature I

LATIN 6b Introduction to Latin Literature II

LATIN 98a,b Directed Reading

LATIN 99 Senior Research

***LATIN 116b** Satura

LATIN 116aR Lucretius: *De Rerum Natura*

LATIN 118a Latin Lyric

***LATIN 118b** Roman Historians

***LATIN 120a** Roman Epic Poets

CLASS 4a (FA 31a) The Art of Ancient Greece

***CLASS 27bR** The Homeric Epic

***CLASS 101a (HIST 101a)** Greek History: A Survey

***CLASS 101b (HIST 101b)** Topics in Greek History

CLASS 102a (HIST 102a) Roman History to 27B.C.: Survey

CLASS 102b (HIST 102b) Topics in Roman History: From Republic to Empire

***CLASS 104aR (ANTHR 104aR, UC 79G)** Hesiod's *Works and Days*

***CLASS 105b** Golden Age of Greece

***CLASS 106b (ENG 123b)** The Renaissance of Ovid in England

CLASS 107b (HIST 104b) Imperial Roman History: A Survey

CLORS 2a (ANTHR 2a) The Development of Prehistoric Societies

CLORS 10 The Archaeology of the Aegean and the Near East

***CLORS 11b (NEJS 11b)** History of Ancient Israel

***CLORS 12a (NEJS 10a)** Historical Geography of Israel

CLORS 22Hb (ANTHR 22Hb) Archaeological Field Methods

CLORS 40b (ANTHR 40b) Earliest Civilization of the Near East and Asia

CLORS 98a,b Directed Readings

CLORS 99 Senior Honors Research

***CLORS 103a (NEJS 103a, DC 79D)** Introduction to Islamic Civilization and Institutions

***CLORS 108a** From the Depths of the Apsu: Masterpieces of Mesopotamian Literature

***CLORS 108b (NEJS 108b)** Comparative Grammar of Semitic Languages

CLORS 110Ha (NEJS 110Ha) Jerusalem: An Archaeological Study of Urban Forms in Pre-Modern Times

***CLORS 111 (ANTHR 130)** The Archaeology of Syria-Palestine

CLORS 112Hb Archaeology of Biblical Israel

CLORS 117 The Archaeology of Mesopotamia and Iran

***CLORS 119 (ANTHR 149)** The Archaeology of the Aegean

CLORS 120b (ANTHR 109b) Archaeological Methods

CLORS 121a (ANTHR 123a) Directions and Issues in Archaeology

CLORS 122 The Archaeology of Anatolia

CLORS 129b (NEJS 129b) Alexandria: The City and the Idea

***CLORS 130a** Mathematical and Computer Methods in Archaeology

***CLORS 131a (ANTHR 186a)** Mathematics and Computers in Archaeological Data Analysis I

***CLORS 131b (ANTHR 186b)** Mathematics and Computers in Archaeological Data Analysis II

CLORS 146a (ANTHR 146a) Environment and Archaeology

CLORS 148aR Rise, Function and Fall of Early Civilizations: Concepts and Explanations

CLORS 149a (ANTHR 122a) The World Before Civilization

CLORS 150b History of Egyptian Civilization

***CLORS 165 (HIST 103)** History of Mesopotamia

***CLORS 166a** Topics in Mesopotamian History: Second Millennium B.C.E.

CLORS 167b Topics in Mesopotamian History: First Millennium B.C.E.

***CLORS 168a** The Hellenistic Period in Mesopotamia

***CLORS 170a** Historiography in the Ancient World

AKKAD 101 Elementary Akkadian

***AKKAD 102a** Advanced Akkadian I: Assyrian Royal Inscriptions

AKKAD 103 Advanced Akkadian III: Second Millennium Texts

***AKKAD 104a** Advanced Akkadian IV: Wisdom Literature

ARAB 101 (NEJS 101) Introductory Literary Arabic

ARAB 102 (NEJS 102) Intermediate Literary Arabic

***COPT 101** Coptic Language

EGYPT 101 Elementary Egyptian

***EGYPT 102** Advanced Egyptian IV: Hymns and Poems I

EGYPT 104b Advanced Egyptian II: Late Egyptian Stories

EGYPT 107 Advanced Egyptian IV: Hymns and Poems II

***HITT 101** Elementary Hittite

***SUMER 101** Elementary Sumerian

***UGAR 101 (NEJS 106)** Elementary Ugaritic

COMPARATIVE LITERATURE

Committee: Associate Professor Richard H. Lansing *(Chairperson and Advisor to Seniors)*; Professors Edward Engelberg *(Student Advisor)*, Denah Lida; Associate Professors Andrée Collard, Stephen J. Gendzier, Erica Harth, Alan L. Levitan, Luis E. Yglesias; Assistant Professor Edward Kaplan.

All students are welcome to enroll in any course in the program, unless prerequisites are stipulated. The common text in all courses is in English. Comparative Literature offerings divide into two categories: period courses, which examine the spirit and intellectual continuity of an age reflected in the works of its major authors; and thematic courses, which emphasize a literary theme, motif, genre, (e.g., novel, lyric, drama, epic, picaresque), or mode (e.g., satire, allegory, symbolism).

Requirements for Concentration

A. EULIT 100a and 100b in the first year of the concentration, taken in sequence.

B. Five semester courses in Comparative Literature, at least two from the *Period* category and at least two from the *Thematic* category. The courses selected from the first category must span any two *consecutive* literary periods (e.g., 101 and 102, 102 and 103, etc.), although the student is not required to complete them in their historical order. Period courses fall in the 101-107 range; the final digit identifies the period, as follows: (1) Antiquity, (2) Middle Ages, (3) Renaissance, (4) 17th Century, (5) 18th Century, (6) 19th Century, (7) 20th Century.

C. Three upper level semester courses in any one of the following foreign literatures: French, German, Greek, Hebrew, Italian, Latin, Russian, Spanish.

D. All concentrators are required to complete the Senior Seminar, in one of the following two ways: (1) EULIT 97a: Senior Essay; (2) EULIT 99: Senior Honors Thesis. Departmental Honors candidates must elect the Thesis option and enroll in EULIT 99 (which is a full year course), after having first obtained the consent of the Area Head of Comparative Literature at the beginning of the senior year. Honors will be awarded on the basis of cumulative excellence in all courses taken in the concentration, including the Senior Seminar.

It is strongly recommended that concentrators (especially those who plan a graduate career in Comparative Literature) begin a second foreign language.

In addition to the courses listed below, students should consult offerings in all foreign literatures, English, Philosophy and History of Ideas, and Theater Arts.

The minimum requirement for concentration in Comparative Literature is eleven semester courses: three in European Literature, five in Comparative Literature, and three in any one Foreign Literature.

***COLIT 5a** Freshman Seminar: In Praise of Folly

EULIT 97a Senior Essay

COLIT 98a,b Independent Study

EULIT 99 Senior Honors Thesis

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre: The Romance

***COLIT 101b (ENG 88b, NEJS 93b)** Homer and the Bible

***COLIT 102a** Love in the Middle Ages

COLIT 103b The Search for Order in the Renaissance

COLIT 104a Classicism and Rationalism

COLIT 105b Crisis of Conscience: 1715-1830

***COLIT 106a** The "Double" Perspective of Reality: European Romanticism

***COLIT 107b** Tradition and Revolution: Themes in European Modernism

***COLIT 125aR** Women in Literature

***COLIT 135b (THA 155b, DC 78J)** The Rising Sun: Japanese Literature from 10th Century to Present

***COLIT 137a** Dada and Surrealist Practice

***COLIT 141b** The Picaresque Novel

***COLIT 144b** The Outsider as Artist and Lover

COLIT 146a Structures of the Family in Literature

***COLIT 148bR** The Lyric Since Valery

***COLIT 150aR** The Bildungsroman

***COLIT 156b** Early European Narrative Forms

***COLIT 158b** Images of Latin America in Twentieth Century Fiction

COLIT 170b (THA 171b) Modern Tragedy

***COLIT 175bR** The Psychological Novel

***COLIT 180a** Versions of the "Absurd"

***COLIT 185aR (ENG 185aR)** Dickens and Dostoevsky

COLIT 192aR The Faust Theme in European Literature

COLIT 193a (DC 78F) Native American Literature

***COLIT 194aR** Social Disillusionment in the Novel: 1848-1925

***COLIT 195a** Crime and Punishment: Variations on a Literary Theme

***COLIT 199b** The Roots of Literature

COMPUTER SCIENCE

Concentration Committee: **Associate Professor Max Chrétien, *Chairman;* Professors Jacques Cohen, Eugene P. Gross; Associate Professor Lawrence E. Kirsch; Assistant Professors James R. Bensinger, Ellis S. Cohen, Mitchell L. Model; Adjunct Assistant Professor Naomi B. Schmidt.**

Requirements for Concentration

1. COSCI 19a and 19b. Normally taken freshman or sophomore year.

2. MATH 10a and b, or MATH 11a and b, or MATH 12a and b. Normally taken freshman year. Students with sufficient background may be excused from taking these courses.

3. COSCI 24a and 27b. Normally taken sophomore or junior year.

4. COSCI 32a. Normally taken sophomore or junior year.

5. MATH 31a or 20a or 21a and b. Normally taken sophomore or junior year.

6. COSCI 29a (MATH 29a), normally taken sophomore or junior year.

7. One course from list A and a second from either list A or list B.

List A: COSCI 28a, 33b, 34a, 35a, 36aR, 41aR, 45a/b, 52b, 53a, 54a, 97a/b, 99, 151a.
List B: COSCI 22b, ECON 83a, 84b; LING 100a, 196a; MATH 30a, 35a, 36a, 105a; PHIL 115a, 121b; PSYCH 10b, 12aR, 154a.

8. Graduation with distinction in Computer Science requires one year of COSCI 99.

Special Note: Students can receive credit for only one of COSCI 13a, 14a or 16a. Students who have taken COSCI 12a can get credit for COSCI 14a or 16a, but not for 13a.

COSCI 12a (PHYS 12a) Introduction to Computers

COSCI 13a,aR Introduction to Computer Programming in BASIC

COSCI 14a,aR Introduction to Computer Programming in FORTRAN

COSCI 14b Computer Application in Science and Economics

COSCI 16aR Introduction to Computer Programming for the Social Sciences

COSCI 19a Introduction to Computer Science

COSCI 19b Fundamentals of Data Structures

COSCI 22b Computer Simulation Models

COSCI 24a Computer Structure, Assembly and Systems Programming

COSCI 27b General Introduction to Programming Languages

COSCI 28a Advanced Topics in Data Structures

COSCI 29a (MATH 29a) Discrete Mathematics

COSCI 32a (PHYS 32a) Logic Circuits and Computer Design Laboratory

COSCI 32b (PHYS 32b) Microprocessors

COSCI 33b (PHYS 33b) Numerical Methods

***COSCI 34a** Computer Architecture

***COSCI 35aR** Formal Languages and Syntactic Analysis

COSCI 36aR (PHYS 36aR) Analysis of Algorithms

COSCI 41aR Operating Systems

COSCI 45a Advanced Projects I

COSCI 45b Advanced Projects II

COSCI 52b LISP and Artificial Intelligence

COSCI 53a Artificial Intelligence

COSCI 54a Natural Language Processing

COSCI 97a,b Tutorial in Computer Science

COSCI 98a,b Readings in Computer Science

COSCI 99 Senior Research

ECONOMICS

Professor F. Trenery Dolbear, Jr., *Chairman;* Professors Joseph S. Berliner*, Anne P. Carter *Honors Coordinator*, Robert Evans, Jr., Richard S. Weckstein, Associate Professors Leonard Hausman (Heller School), Peter A. Petri, Barney K. Schwalberg *(Advising Head)*; Assistant Professors Yale M. Braunstein, Michael Coiner, Randall K. Filer, Lawrence B. Pulley; Instructors Ronald Ferguson (AAAS), James Luckett.**

*** On Leave AY 1980-81

Requirements for Concentration

1. ECON 2a and 8b. A grade of C — or higher is required in these courses.

2. ECON 80a, 82b, and 83.

3. Four elective courses in Economics. ECON 98 and ECON 99 may not be used to meet this requirement.

Advising: Every concentrator is assigned an academic advisor who should be consulted about selection of economics electives and sequencing of courses.

Mathematics and Computer Science: Many students find calculus, linear algebra and computer programming useful preparation for advanced economics courses. See advisor for information on which courses are appropriate.

ECON 2a,aR Introduction to Economics

ECON 7a Freshman Seminar: Great Economic Ideas

ECON 8b,bR Analysis of Economic Problems

ECON 12a Managerial Accounting

ECON 22a (AMSTD 127a, HIST 155a) American Economic History

ECON 32b Comparative Systems

ECON 34a Economics of the Public Sector

ECON 37aR The Political Economy of Cities

ECON 38b Economic Policy Issues

ECON 44b Economics of the Arts

***ECON 45b (POL 122b)** Policy Analysis and Policy Implementation

ECON 54b Economic Aspects of Medical Care

ECON 57aR The Economics of Environment and Resources

ECON 59b Economics of Education

ECON 60a International Economic Policy

ECON 71aR Financial Markets

ECON 74bR Law and Economics

ECON 75aR The Economics of Underdeveloped Countries

ECON 76bR Labor Economics

ECON 78b Income Maintenance Programs and Policies

ECON 80a,aR Microeconomic Theory

ECON 82b,bR Macroeconomic Theory

ECON 83a,aR Statistics for Economic Analysis

ECON 84b Econometrics

ECON 85b Input Output Analysis

ECON 86bR Quantitative Models of the Economy

ECON 89a Introduction to Mathematical Economics

ECON 97c (ENVST 97c) Seminar on the Environment

ECON 98a,b Independent Study

ECON 99 Senior Research

ECON 133a Public Choice

ECON 134b The Public Sector

ECON 135aR Industrial Organization

ECON 136b Managerial Economics

ECON 141b The Economics of Technological Change

ECON 150b Social Economics

ECON 151a The Economics of the Family

ECON 160a International Trade

ECON 162a Macroeconomic Aspects of Labor

ECON 168b The History of Economics

ECON 169a Radical Economics (Through the Looking Glass)

ECON 173b Inflation Seminar

ECON 179b The Legal Regulation of Economic Activity

ECON 180aR Advanced Microeconomic Theory

***ECON 182a** Advanced Macroeconomics

***ECON 190b** Advanced Topics in Economic Theory

EDUCATION PROGRAM

Peter D. Witt, *Director*; Instructor Beth Davis.

Education is not a field of concentration but a program that trains undergraduates for elementary and secondary school teaching. It is also valuable for those planning careers in related fields such as special education, counseling, clinical psychology, and social work. In addition, some take the program simply as a worthwhile supplement to their liberal education at Brandeis.

Education Program requirements, which are changing to meet new state certification requirements, are as follows:

SECONDARY (High School)

Class of 1981: PSYCH 5 and 115a or aR (prerequisites to practice teaching); ED 100b in spring of junior year (prerequisite to practice teaching); an elective dealing with the problems of education, preferably SOC 152b; ED 102a concurrently with ED 110aA (fall term of senior year). In addition, teachers of Social Studies should take HIST 51a and b (or approved equivalents). Teachers of English should take LING 100a or 90b.

Classes of 1982-84: PSYCH 5, 115a or aR, and ED 100b (prerequisites to practice teaching); ED 102a concurrently with ED 110a (fall term of senior year); and an appropriate elective such as SOC 152b. All students must take the field work component, in a high school classroom, or either PSYCH 115a or SOC 152b. In addition, teachers of Social Studies *must* take HIST 51a and b or AMSTD 102a and b. Teachers of English *must* take LING 100a or 90b.

ELEMENTARY

PSYCH 5, 115a or aR, and ED 100a (prerequisites to practice teaching); ED 101, always begun the semester before practice teaching, and ED 111bB (junior or senior year).

Students who plan to spend their junior year abroad and students who cannot fulfill all the requirements but are nevertheless interested in student teaching should consult the director about possible alternatives. However, no student who does not complete one of the programs listed above will be recommended by Brandeis for Massachusetts certification.

ED 98a,b Individual Readings and Research in Education

ED 100a,b Introduction to Teaching in the Secondary School

ED 101 Elementary School Curriculum and Methods

ED 102a Seminar: Teaching in the Secondary School

ED 107a Teaching of Elementary Reading

ED 110aA Practice Teaching: Secondary School

ED 111bB Practice Teaching: Elementary School

ENGLISH AND AMERICAN LITERATURE

English and American Literature: **Professor Benjamin B. Hoover, *Chairman;* Professors Allen Grossman, Milton Hindus, Robert O. Preyer, John H. Smith**, Peter Swiggart; Adjunct Professor Margaret Rey; Visiting Professor Christine Brooke-Rose (fall), Joseph Wittreich (spring); Associate Professors Philip Fisher *(Director of Undergraduate Studies),* Michael T. Gilmore***, Karen W. Klein, Alan Levitan *(Director of Graduate Studies),* Richard J. Onorato, Susan Staves***; Assistant Professors Judith Ferster***, James B. Merod, Richard Yanowitz (Mellon Scholar); Lecturer with the rank of Associate Professor, on the Fannie Hurst Foundation: Alan Williamson; Lecturers with the rank of Assistant Professor Elaine Beilin, Judy Lee *(Director of Freshman Writing Program),* Nicholas Linfield; Lecturer Esther Sofman; Instructor Daniel Schenker; Writer-in-Residence Alan Lelchuk.**

Linguistics: **Professor Ray S. Jackendoff, *Chairman;* Associate Professors Joan Maling; Assistant Professor Jane B. Grimshaw.**

** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

MAIN TRACK
***Eight* semester courses are required, including the following:**

(a) a semester course in literary method, ENG 11a or aR, which must be taken during the student's first year as an English major.

(b) ***one*** semester course in each of five different periods, chosen from the following six, as identified by the course-numbering system described below:

(1) Medieval British literature (roughly before 1500)

(2) Renaissance British literature (circa 1500-1660)

(3) Restoration/Eighteenth-Century British or American literature (circa 1660-1800)

(4) Nineteenth-Century British literature

(5) Nineteenth-Century American literature

(6) Twentieth-Century British or American literature

(c) a one-semester elective which may be any course (except writing workshops or linguistics courses) offered by the English Department

(d) ***one*** of the following senior options:

(1) the senior essay, ENG 99a or b

(2) a senior tutorial, courses numbered 91-97a or b

(3) senior thesis, ENG 98

WRITING TRACK
***Ten* semester courses are required, which must include the following:**

(a) a semester course in literary method, ENG 11a or aR, which must be taken during the student's first year as an English major;

(b) ***three*** semester courses in directed writing, ENG 109a or b, ENG 119a or b, ENG 129a or b;

(c) ***one*** semester course in ***each of three*** different periods, chosen from the Main Track list;

(d) senior thesis, ENG 98, to produce a body of writing of appropriate scope (two semesters).

Admission to the program is by successful completion of a writing workshop and a review of the student's work by the director of the writing track.

Students who choose the writing track are advised to complete the requirements for the Main Track as well.

ENGLISH AND LINGUISTICS TRACK
***Nine* semester courses are required, including the following: *any four* periods from the requirement listed above under (b) of the Main Track; any *four* semester courses in Linguistics; and LING 99. Each program should be worked out in consultation with the Linguistics Coordinator.**

Except for courses in the 90-109 range, English department courses are numbered systematically. The final digit for any course number identifies the subject area, as follows:
0-Courses in a literary genre
1-Courses in literary theory
2-Medieval literature
3-Renaissance literature
4-Restoration/Eighteenth-Century British or American literature
5-Nineteenth-Century British literature
6-Nineteenth-Century American literature
7-Twentieth-Century British or American literature
8-Miscellaneous literary subjects
9-Writing courses

Only one ENG 90a or b (Independent Study) semester course per semester may be used to satisfy major requirements. Students planning to use ENG 90 courses to meet concentration requirements should see the Director of Undergraduate Advising in the Department of English and American Literature.

Honors: The Department awards honors to its concentrators on the basis of honor work done in regular English courses, with special emphasis on the work done for the senior option. No special program or project is required.

See also English and Classics.

BCOMP 1a
FWS 1a,aR

***ENG 3b** The Seventeenth Century

***ENG 4a** The Eighteenth Century

ENG 5a Writers in the Victorian Age

ENG 6a,aR (AMSTD 8a,aR, HUM 4a,aR) American Literature from 1832 to 1900

ENG 7a,aR (AMSTD 9a,aR, HUM 4b,bR) American Literature from 1900 to 1965

ENG 8b (LING 90b) Grammar

ENG 9a,aR Advanced Writing Seminar

***ENG 10b** Poetry: A Basic Course

ENG 11a,aR Introduction to Literary Method

***ENG 18a (HUM 1a)** The Representation of Experience in the Western World from Homer and Hesiod through Plato I

***ENG 18b (HUM 1b)** The Representation of Experience: A Basic Course of Literary Study II

ENG 28a Survey of English Literature, Part I

ENG 28b Survey of English Literature, Part II

***ENG 33a,b (THA 124a, 124b)** Shakespeare

ENG 37b (AMSTD 125b, THA 125b) History of American Drama: 1919-Present

***ENG 38a (AMSTD 125a, THA 125a)** History of American Drama: 1665-1919

***ENG 43a (WOMEN 43a)** Images of Femininity in Tudor Literature

ENG 47b Modern Poetry in Britain: 1900-1945

***ENG 58a** Existentialism and American Fiction

ENG 67b Modern Poetry

***ENG 71a** History of Literary Criticism

ENG 75bR The Nineteenth Century Novel

ENG 77aR (HUM 61aR) Modern Novel

ENG 80a Readings in the Short Novel

***ENG 87b** Contemporary Fiction

***ENG 88b (COLIT 101b, NEJS 93b)** Homer and the Bible

***ENG 89a** Writing About Fiction

ENG 90a,b Independent Study

ENG 91a Senior Seminar: Poetry

ENG 91b Senior Seminar: Fiction and Film

ENG 92a Senior Seminar: Literature of the Holocaust

ENG 98 Senior Thesis

ENG 99a,b The Senior Essay

ENG 109a Directed Writing: Fiction

***ENG 109b** Directed Writing: Fiction

ENG 119a,b Directed Writing: Poetry

***ENG 120bR** The Tradition of the Short Poem in English

***ENG 122a** Old English

***ENG 122b** Old English Epic

***ENG 123b (CLASS 106b)** The Renaissance of Ovid in England

***ENG 127a** D. H. Lawrence and Virginia Woolf

***ENG 127b** The Contemporary and the Avant Garde

***ENG 129** Directed Writing: Poetry and Prose

ENG 132bR Chaucer

ENG 133aR (THA 140aR) Advanced Shakespeare

***ENG 134a** The Women of Letters in the Eighteenth Century

***ENG 135a** Romantic Poetry

ENG 135bR Romanticism

***ENG 136a** Whitman and His Archive

***ENG 137a** Twentieth-Century Poets: Frost, Eliot, Pound

***ENG 142a** Intention and Interpretation in Medieval Literature

***ENG 142bR (HUM 125a, THA 170bR)** Medieval Drama

***ENG 143a (THA 170a)** Elizabethan and Jacobean Drama

ENG 143bR (THA 169bR) English Drama Before Shakespeare

***ENG 145b** Victorian Poetry and Poetics

***ENG 147a** Faulkner and Fitzgerald

***ENG 147b,bR (THA 182b,bR)** American Drama

***ENG 148bR (ENCLA 148bR)** Classical Background of English Literature: Pastoral and other Poetry

ENG 151bR Contemporary Critical Theories

***ENG 153b** Milton

***ENG 155a** Women as Men of Letters in Nineteenth-Century England

***ENG 156a (AMSTD 156a)** Dissent in American Literature: From the Revolution to the Civil War

ENG 157a Lowell and His Generation

***ENG 157b (THA 157b)** Modern British Drama and Theater

***ENG 158aR** American Poetry

ENG 161a Theory of the Fantastic

***ENG 163a** Seventeenth-Century Poetry

***ENG 164b (THA 165b)** Restoration and Eighteenth-Century Drama

***ENG 167a** The Irish Literary Renaissance

ENG 168a (ANTHR 194a, COLIT 193a, DC 78F) Native American Literature

ENG 173 Literary and Intellectual Ferment in the English Renaissance

ENG 174b Eighteenth-Century Novel

ENG 175b City and Psyche in Victorian Literature

***ENG 176a** Hawthorne and Melville

ENG 176b Hawthorne, Melville, and Poe

ENG 177b (WOMEN'S STUDIES) Contemporary Women Writers

***ENG 178a** Literature and Language Meaning

***ENG 185aR (COLIT 185aR)** Dickens and Dostoevsky

ENG 187a The Modern Novel I

ENG 187b The Modern Novel II

ENGLISH AND CLASSICS

Committee: **Professors John H. Smith and Douglas J. Stewart.**

Requirements for Concentration

A. Five semester-courses in English, including ENG 11a and including semester-courses in any three of the periods required for concentration in English and American Literature.

B. Five semester-courses in Latin above the LATIN 1 level or five semester-courses in Greek above the GREEK 1 level.

C. A one-semester course of independent study (ENG 90a or b, LATIN 98a or b, GREEK 98a or b) leading to an essay to be read by members of the Department of Classics and the Department of English and American Literature. The essay must concern itself with issues involved in both classical and English studies. This course should normally be taken in the senior year.

It is recommended, though not required, that a student offering the combination of English and Latin also acquire an elementary knowledge of Greek and that a student offering the combination of English and Greek also acquire an elementary knowledge of Latin. A student's course of study in this field may be supplemented by appropriate courses in history, philosophy, art, and archaeology.

Except insofar as elementary courses in Latin or Greek are used to meet the University foreign language and literature requirement, no course which is offered in fulfillment of any general degree requirement may be counted toward concentration in this field.

Honors in English and Classics is determined by the Committee on the basis of distinguished work in completing the concentration.

***ENCLA 148bR (ENG 148bR)** Classical Background of English Literature: Pastoral and Other Poetry

ENVIRONMENTAL STUDIES PROGRAM

Committee: **Associate Professor Attila Klein, Chairman *(Biology);* Associate Professors Robert C. Hunt *(Anthropology),* Hermann F. Wellenstein *(Physics);* Assistant Professors Randall K. Filer *(Economics),* Christopher Leman *(Politics).***

An interdisciplinary program for students concentrating in existing departments or degree programs of the University. Courses are offered dealing with various aspects of environmental problems and guidance is provided for students who wish to prepare for careers related to environmental questions. It is a primary intent of the Program to develop a conceptual framework for enabling students to consider the important scientific, social, and policy issues associated with environmental questions.

Requirements for the Program are under Review

ENVST 8a Energy: Science, Applied Science and Society

ENVST 10b Into the Ocean World

***ENVST 97c (ECON 97c)** Seminar on the Environment

FINE ARTS

Associate Professor Gerald S. Benstein, *Chairman;* Professors Ludovico Borgo, Joachim E. Gaehde, Paul Georges, Peter Grippe (Emeritus); Associate Professors Elaine P. Loeffler, Robert J. Maeda; Assistant Professors Joan L. Nissman, Nancy J. Scott; Instructor Susan Lichtman; Artist-In-Residence Paul L. Brown; Visiting Artists Mel Baker, Anthony Santuoso; Lecturer Carl I. Belz.**

** On Leave Spring Term 1980-81

Requirements for Concentration

Concentration may be elected in either (A) Applied Arts (Studio), or (B) Art History and Criticism

A. Studio Curriculum

Studio concentrators are required to take:

1. FA 103 and six additional semesters of studio electives
2. Four semesters of Art History consisting of: one course in Ancient or Medieval Art; one course in Oriental Art; two courses in Renaissance to Modern Art.

B. Art History Curriculum

1. General Requirements:

FA 10;

One course in Asian Art (FA 12a suggested but not required); Seminar in Methods and Approaches in History of Art (FA 197); One full year of studio work with consent of the Instructor.

2. Thereafter, the FA history concentrator may follow one of two "tracks":

A) **Ancient through Renaissance "track":**

Three courses, one of which should be a research course (a seminar or reading course) in offerings in Ancient through Renaissance art, one course post-Renaissance art and two electives.

B) **Renasissance through Modern "track":**

Three courses, one of which should be a research course (a seminar or reading course) in offerings in Renaissance through Modern, one course Ancient or Medieval art and two electives.

Note that in both tracks, with permission of the faculty advisor, the student may take one or both electives in related areas outside the department.

Prospective graduate students in the History of Art are advised to acquire reading skills in foreign languages which are necessary for graduate study.

Studio

All studio courses are full year courses beginning in the fall.

FA 1 Elements of Design in Art

Art History

FA 10 Survey of Western Art

FA 12a Survey of Asian Art

***FA 20a** Introduction to the History of Art I: Antiquity and the Middle Ages

FA 20bR Introduction to the History of Art II: From the Renaissance to the Modern Age

FA 21b Great Buildings of the Western World

***FA 23b** The Art of Antiquity

FA 31a (CLASS 4a) The Art of Ancient Greece

***FA 31b (CLASS 4b)** The Art of Ancient Italy

FA 41a (Medieval Studies Program) Art of the Middle Ages I

FA 42b (Medieval Studies Program) Art of the Middle Ages II

***FA 51a** Art of the Early Renaissance in Italy

***FA 54b** Renaissance Art in Northern Europe

FA 58b High and Late Renaissance in Italy

FA 63a Rembrandt and His Times

FA 72a History of Modern Sculpture

FA 73b Freshman Seminar: An Introduction to Art

FA 79Hb Jerusalem in History and Art

FA 97a Sec. 1 Winslow Homer, Mark Twain and Their Times

FA 97a Sec. 2 Applications of Science in Examination of Works of Art

FA 97b Sec. 1 The Graphic Work of Goya

FA 97b Sec. 2 History of the Japanese Woodblock Print

FA 98a,b Independent Study

FA 99 Senior Research

Studio

FA 102 Theory and Practice of Painting

FA 103 Life Drawing

FA 104 Advanced Life Drawing

FA 108 Advanced Painting

FA 109 Advanced Painting in the Abstract Mode

FA 111 Sculpture

FA 112 Advanced Sculpture

FA 115 Workshop in Printmaking

FA 116 Advanced Workshop in Printmaking

FA 120a Modern Architecture

FA 122a (AMSTD 122a) American Architecture and Painting

***FA 160a** Seventeenth Century Art

FA 161b Eighteenth Century Art

***FA 162b** Seventeenth and Eighteenth Century European Architecture

***FA 170b** Nineteenth Century European Painting and Sculpture

FA 171b Painting and Sculpture of the Twentieth Century

FA 178bR Chinese Figurative Art

***FA 179b** Chinese Landscape Painting: From the Sung Dynasty through the Ch'ing

FA 181b Introduction to the Art of Japan

***FA 182a** Introduction to the Art of China I

***FA 182b** Introduction to the Art of China II

FA 184aR Advanced Studies in Oriental Art

FA 191bR Advanced Studies in Renaissance Art

***FA 192a** Advanced Studies in Modern Art

***FA 193b** Advanced Studies in Ancient Art

***FA 194b** Advanced Studies in American Art

***FA 195a (ANTHR 153a)** Primitive Art

***FA 196a** Advanced Studies in Seventeenth and Eighteenth Century Art

FA 197b Methods and Approaches in the History of Art

FA 198b Museum Methods and Procedures

FRENCH LANGUAGE AND LITERATURE

Faculty: See ROMANCE AND COMPARATIVE LITERATURE

Requirements for Concentration

A. EULIT 100a and 100b in the first year of concentration, taken in sequence.

B. Advanced language study: FREN 103a and 106b.

C. Early literary movement studies: any THREE of the following courses: FREN 112a, 116b, 117a, 118b.

D. To complete the French Literature course requirement, concentrators may offer any FOUR additional semester courses numbered above 100 in the French Literature offerings.

E. All concentrators are required to complete the Senior Seminar, in one of the following two ways: (1) EULIT 97a: Senior Essay, (2) EULIT 99: Senior Honors Thesis. Departmental honors candidates must elect the Thesis option and enroll in EULIT 99 (which is a full year course), after having first obtained the consent of the Advisor to Concentrators at the beginning of the senior year. Honors will be awarded on the basis of cumulative excellence in all courses taken in the concentration, including the Senior Seminar.

Certain offerings in French literature, marked # below, are open to all students and are conducted in English with a dual reading list, each text being available in the original language and in English translation. Students wishing credit toward the French concentration for such courses will be required to do all the reading in the original. These courses do meet the Distribution Requirement in the Humanities but do not meet the Foreign Literature Requirement.

FREN 1 Beginning and Elementary French

FREN 1aA Intensive Beginning and Elementary French

FREN 2bB Intensive Beginning and Elementary

FREN 3a Intermediate French

FREN 4b,bR Advanced Intermediate French

FREN 5a,aR Reading French

FREN 6a,aR Reading French Literature: An Introductory Course

EULIT 97a Senior Essay

FREN 98a,b Independent Study

EULIT 99 Senior Honors Thesis

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre: The Romance

FREN 103a French Conversation and Composition

FREN 106b Advanced French Composition and Stylistics

***FREN 112aR** The French Middle Ages

FREN 116bR The French Renaissance

***FREN 117a** French Classicism

FREN 118bR The French Enlightenment

FREN 119a French Romanticism

FREN 125aR French Poetry from the Middle Ages to the Revolution

***FREN 138bR** The Great Age of French Fiction

FREN 140b Twentieth Century French Theater

***FREN 149aR** Twentieth Century French Fiction

***FREN 150bR** Modern French Poetry

***FREN 160aR** From Anti-Rationalism to "Engagement"

FREN 170b The Moralist Tradition in French Literature

***FREN 180b** Modern French Critical Thought

***FREN 190a** Major Authors Seminar

GENERAL SCIENCE

Committee: Professor Jerome A. Schiff, *Chairman and Advising Head;* Professors Richard S. Palais, Howard J. Schnitzer, Colin Steel; Assistant Professor Christopher Miller, *Ex-Officio: Head, Science Council.*

The General Science program is designed for students planning to enter interdisciplinary fields, to teach science in secondary schools, to enter medicine, public health, dentistry, veterinary medicine and their allied fields, to enter the optometry profession, to enter the field of biomedical engineering, or to undertake other programs requiring a general scientific background or a particular mixture of science courses. Joint majors with other departments in the sciences are also possible. Students who intend to do graduate work in a specific scientific field are advised to fulfill the undergraduate requirements for concentration in that field.

Requirements for Concentration

A. Required of all candidates: BIOCHEM 21a or BIOL 21b; BIOL 20a; BIOL 12a,b; CHEM 11a with 18a or CHEM 15a with 19a; and CHEM 21b with CHEM 27b; MATH 10a,b or 11a,b or 12a,b; PHYS 10a,b or 11a,b with 18a,b or 19a,b. A minimum grade of C in each of these required courses is necessary to fulfill the requirements for the major.

B. Elective Courses: With the approval of the program's advising head, a candidate in the General Science Program must also offer the equivalent of six advanced semester courses from the offerings of the School of Science. Such courses must be selected from at least two and not more than four fields within the School of Science. The following courses may ***not*** be elected: All courses designed exclusively to meet the distribution requirements such as Bio-

logical Science, Physical Science, etc.; all courses numbered below 10, or 90 to 99; courses outside the School of Science; Computer Science courses numbered below 14. It is strongly recommended that at least one elective be chosen from Computer Science 14 and above.

Candidates offering elective courses having laboratories (except Physical Chemistry) are required to enroll in any laboratories accompanying the course; e.g. students offering CHEM 22a and 31b, must also complete CHEM 28a and 38b.

C. No course offered for concentration requirements in General Science may be taken Pass/Fail. No more than one grade of D in a semester course will be allowed among the elective courses offered to fulfill the requirements for this concentration.

D. Honors Program: Concentrators in General Science who wish to earn a degree with honors in General Science must satisfactorily complete an honors program. No later than September of the year in which honors are to be earned, the candidate petitions the General Science Committee to devise an honors program for the student consisting of laboratory research, special courses or both. Approval of this petition is required to admit a student to the honors program. Laboratory research is conducted under the sponsorship of a faculty member of the School of Science; the student enrolls in the 99 course offered by the department to which the sponsor belongs. If a student wishes to work with a research director outside of the School of Science or outside of Brandeis, a faculty member of the Brandeis School of Science must consent to act as the local sponsor. On completion of the thesis the sponsor (or outside research director and local sponsor) makes a recommendation for honors to the General Science Committee to accompany the submission of the thesis. The General Science Committee will then determine whether the student has successfully completed the honors program and will recommend the level of honors to be awarded.

GERMANIC AND SLAVIC LANGUAGES

Associate Professor Robert Szulkin*, *Chairman;*
Professor Harry Zohn, *Acting Chairman, Fall Term);*
German: Professor Harry Zohn *(Advising Head);* Associate Professor Eberhard Frey; Lecturer Rudolf Hofmeister (with the rank of Assistant Professor).
Russian: Associate Professors Margaret Dalton; Robert Szulkin* *(Advising Head);* Lecturer David A. Hanson (with the rank of Assistant Professor), Patricia Hanson.

* On Leave Fall Term 1980-81

For course offerings and requirements for concentration, see German and Russian.

GERMANIC LANGUAGE AND LITERATURE

Requirements for Concentration

A. EULIT 100a and 100b in the first year of the concentration, taken in sequence.

B. Advanced language and literature study: GER 3a, 102a, 106a, 110a, 120a, 130b, 140a; any two of the following: GER 160b, 170b, 180a.

C. All concentrators are required to complete the Senior Seminar, in one of the following two ways:

(1) EULIT 97a: Senior Essay

(2) EULIT 99: Senior Honors Thesis

Departmental honors candidates must elect the thesis option and enroll in EULIT 99 (which is a full year course), after having first obtained the consent of the Advising Head of German Language and Literature at the beginning of the Senior year. Honors will be awarded on the basis of cumulative excellence in all courses taken in the concentration, including the Senior Seminar.

GER 1 and GER 2 are full year courses and may not be dropped at midyear with credit.

Certain offerings in German literature, marked #, are open to all students and are conducted in English with a dual reading list, each text being available in the original language and in English translation. Students wishing credit toward the German concentration will be required to do all the reading in the original. These courses do meet the distribution requirement but cannot be taken in fulfillment of the foreign literature requirement.

GER 1 Introductory German

GER 2 Intermediate German

GER 3a Composition and Conversation

GER 5a Accelerated Intermediate German

GER 6aR Advanced Readings in German Culture

EULIT 97a Senior Essay

GER 98a,b Independent Study

EULIT 99 Senior Honors Thesis

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre: The Romance

***GER 102a** German Literature before 1700

***GER 106aR** Advanced Exercises in Composition and Literary Style

GER 110a Introduction to the Life and Works of Goethe

GER 120a From Enlightenment to Idealism: Lessing, Lenz, and Schiller

***GER 130b** German Romanticism

***GER 140aR** German Literature in the Nineteenth Century

***GER 150aR (JCS 150aR)** The Jewish Contribution to German Literature

GER 160bR German Drama and Poetry from Naturalism to the Second World War

***GER 170bR** German Literature Since the "Year Zero" (1945)

***GER 180a** Twentieth Century Prose: Mann, Kafka, Hesse

GREEK (See Classical and Oriental Studies)

HEBREW (See Near Eastern and Judaic Studies)

HIATT INSTITUTE IN ISRAEL

Brandeis University, through its Jacob Hiatt Institute, offers to students from Brandeis and other American universities a program of study in Israel. Since the Institute was founded in 1961 by Brandeis Trustee Jacob Hiatt of Worcester, Mass., more than 500 juniors and seniors from more than fifty institutions have participated in the program, which emphasizes the social sciences. Hiatt students spend the summer and fall semester in Israel and take a program of four courses taught by faculty from Israeli institutions of higher learning or occasionally by Brandeis professors on sabbatical leave. Instruction is in English. The Institute also offers an opportunity for selected students to undertake a program of intensive independent study or research combined with advanced level seminars in specific social science disciplines.

The Hiatt Institute is open to students who will have satisfactorily completed at least four semesters of work in an accredited college or university prior to departure. Brandeis students may enroll during their sophomore year. Applicants should have maintained at least a B average. Prior knowledge of Hebrew is not required, for the program includes an intensive Hebrew language course. The applicant should, however, have taken at least one introductory course in the social sciences, preferably in political science or sociology.

Further information on the program may be obtained from the Office of International Programs.

CLORS 110Ha (NEJS 110Ha) Jerusalem: An Archaeological Study of Urban Forms in Pre-Modern Times

NEJS 16Ha Biblical History

NEJS 20Ha Social and Intellectual History of the Jews in the Modern Period

NEJS 66Ha Philosophies of Zionism

NEJS 137Ha The Israel Experience Reflected in Modern Hebrew Literature

POL 131Ha Domestic and International Politics of Israel

SOC 98Ha Social Science Research Seminar: Sociology

SOC 131Ha Urban and Rural Development in Israel

HISTORY

Professor Eugene C. Black, *Chairman;* University Professor Frank E. Manuel; University Lecturer Geoffrey Barraclough; Professors David S. Berkowitz (Emeritus), Rudolf Binion, John P. Demos, David H. Fischer, Morton Keller*, Marvin Meyers, David J. Steinberg *(Adjunct)*, Milton A. Vanger; Associate Professors Gregory L. Freeze***, John Schrecker, Stephen Schuker; Bernard Wasserstein; Assistant Professors Samuel Cohn, William Kapelle, Alexander Keyssar*; Instructor James Kloppenberg.**

* On Leave Fall Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

All majors are expected to complete satisfactorily at least nine semester courses in history, five of which must be taught by members of the history faculty. Students are required to take at least three semesters of survey courses, one of which must be in University Studies (HIST 1a to 19b), the other two of which can be drawn from the following: 21a, 21b, 22a, 22b, 51a, 51b, 71a, 71b, 80a or 80b. Ordinarily, these courses should be taken when the student begins his concentration. AP credit can be applied towards fulfilling the survey requirement, but the student must still take nine courses to meet the departmental requirement for concentration.

In addition, each student must complete one major research paper. That requirement may be satisfied by doing a senior honors thesis, by taking an independent study course, or by completing a course in which a major research paper is required (a form with the professor's approval is needed). This obligation is normally fulfilled during the junior or senior year.

Up to two history courses outside the department may be used to meet the nine-course requirement, with the approval of the Department's Advising Head. Transfer students and those taking a year's study abroad may offer up to four semester history courses taken elsewhere. To apply such transfer courses to the history concentration, the student must obtain the approval of the Department Advising head.

History 98a and 98b (readings in History) may be taken by students on a subject of special interest that is not covered by the regular curriculum, or as a supplement to work on the senior honors thesis. The consent of the instructor is required.

History 99 (Senior Research) is required for degrees with distinction. It must be taken in addition to the nine-course major requirement.

HIST 1a Climate and Society

HIST 1b Europe and the Wider World

HIST 2a An Economic History of the Western World: From the 18th Century to the Present

HIST 2b Revolution and Modernization

***HIST 3a** Russia and the West

HIST 3b Modern Europe in Cultural Perspective

***HIST 4a** Freshman Seminar in American History

HIST 4b Survey of History of Science

HIST 6aR Doing History

***HIST 21a** The Rise of Europe

HIST 21bR A Survey of Renaissance and Reformation

HIST 22aR Early Modern Europe

***HIST 22b** Revolution and Modernization

HIST 51a American History 1607-1860

HIST 51b History of the United States: 1865 to the Present

HIST 68a (NEJS 68a) History of the Jews from Ezra to the Spanish Expulsion of 1492

HIST 68b (NEJS 68b) History of the Jews from the Spanish Expulsion of 1492 to the Present

***HIST 70a (AAAS 70a, AMSTD 70a)** Introduction to Afro-American History

HIST 71a Latin American History, Conquest to 1890

HIST 71b Latin American History, 1890 to Present

HIST 80a (UC 73E) Introduction to East Asian Civilization

HIST 80b East Asia in the 19th and 20th Centuries

HIST 98a,b Readings in History

HIST 99 Senior Research

***HIST 101a (CLASS 101a)** Greek History to Alexander: A Survey

***HIST 101b (CLASS 101b)** Alexander and the Hellenistic Monarchs: A Survey

HIST 102a (CLASS 102a) Roman History to 27 B.C.: A Survey

HIST 102b (CLASS 102b) Topics in Roman History: From Republic to Empire

***HIST 103 (CLORS 165)** History of Mesopotamia

HIST 104b (CLASS 107b) Imperial Roman History: A Survey

***HIST 105a (NEJS 128a)** History of the Second Jewish Commonwealth: To the End of the Maccabean Period

***HIST 105b (NEJS 128b)** History of the Second Jewish Commonwealth: From Herod to Bar Kokhba

HIST 106b (CLORS 150b) History of Egyptian Civilization

HIST 107b (CLORS 167b) Topics in Mesopotamian History. First Millennium B.C.E.

***HIST 109b (CLASS 105b)** Golden Age of Greece

HIST 110a The Civilization of the Early Middle Ages

HIST 110b The Civilization of the High and Late Middle Ages

HIST 113aR English Medieval History

***HIST 115b** Seminar on Medieval Russia

***HIST 118a (NEJS 140a)** The Jews in Europe to 1492

***HIST 118b (NEJS 140b)** The Jews in Europe from 1492 to 1800

***HIST 119b (NEJS 142b)** Economic History of the Jews to Emancipation

HIST 120a Senior Seminar in Medieval Studies

***HIST 123a** The Renaissance

***HIST 123b** The Reformation

***HIST 124a** Topics in English Constitutional History: Seminar

***HIST 124b** Topics in Historical Jurisprudence: The English System of Law (Seminar)

***HIST 126aR** Revolution and Absolutism in Early Modern Europe

HIST 130a The French Revolution

***HIST 130b (NEJS 141b)** Jews, Catholics, and Protestants in Western Europe, 1517-1867

***HIST 131b** Topics in Modern Social History

***HIST 132a (HIDEA 141a)** Intellectual History of Modern Europe, 1637-1857

HIST 132b (HIDEA 141b) Modern European Thought and Culture

HIST 133a (DC 77G, HIDEA 133a) The Enlightenment

HIST 133b (DC 80E, HIDEA 133b) Topics in 19th and 20th Century Intellectual History

HIST 134a (NEJS 147a) History of the Near East and the Ottoman Empire

HIST 135b (NEJS 147b) The Arab-Israeli Conflict

***HIST 137a (NEJS 144a)** Jewish Communities in the Moslim Near East in the 19th and 20th Centuries

***HIST 137b (NEJS 144b)** Nationalism in the Modern Near East

***HIST 139a** Women in Modern Europe

***HIST 140b** The Tudor Revolution

HIST 141bR Studies in British History — 1830 to the Present

***HIST 142a,b** Europe and the Wider World: 1920 — Present, Parts I and II

HIST 143b Germany, 1849-1949

HIST 146bR Topics in German History: Hitler and the Jews

***HIST 147a** Rise of Imperial Russia

***HIST 147b** Russia Since 1861

***HIST 148a** Revolutionary Russia, 1890-1917

***HIST 148b** Seminar on Imperial Russia

***HIST 149b** Culture and Thought in Imperial Russia, 1830-1880

***HIST 150a** Colonial America: People, Culture, and Society

***HIST 150b** The American Revolution

HIST 151a Revolution and Founding: Origins of the American Republic

***HIST 151b** Male and Female in the American Past (Proseminar)

HIST 152b Democracy in America: Tocqueville in the Age of Jackson

***HIST 154b** The History of Modern America

HIST 155a (AMSTD 127a) (ECON 22a) American Economic History

***HIST 156a** American Society: An Analytical History, 1607 to the Civil War

HIST 156b American Society: An Analytical History, Civil War to the Present

HIST 158a Working Class History in the United States

HIST 159a Immigration and Immigrants in American History

***HIST 159b** Family and Society in American History

***HIST 160aR** Adams and America

HIST 161a The American Political Tradition: Origins to the Civil War

***HIST 161bR** The American Polity

HIST 162b The American Political Tradition since the Civil War

HIST 163aR (POL 168aR) American Foreign Relations in the 20th Century

HIST 163b (POL 168b) American Foreign Policy

HIST 164a (POL 115a) History of American Constitutional Law

HIST 164b (POL 115b) American Constitutional Law and Theory

***HIST 167b** Topics in American Legal History

***HIST 168aR (AMSTD 104aR)** Between the Past and the Present: American Culture 1890-1917

***HIST 168b (AMSTD 104b)** American Political and Social Thought since World War II

HIST 168bR (AMSTD 185bR) American Political and Social Thought Since World War II

***HIST 173a** The Family in Latin America

***HIST 173b** The World and Latin America

HIST 174a (LAS 174a) The Contemporary Novel and Latin American Reality

HIST 176bR (LAS 100a) Why Democracy Collapses: The Uruguayan Case

HIST 180aR Modern China (Seminar)

HIST 181b Seminar on Chinese Thought

HIST 182b Modern Southeast Asian History

***HIST 185b** The Coming of War, 1931-1941

HIST 190aR Historiography

***HIST 190b** Research in American Social History

HIST 191aR History and Psychology

***HIST 193b** The United States and Great Britain: Comparative Perspectives, 1830-1930

HIST 194a An Introduction to Historical Geography

HIST 197aR Seminar in Comparative History: Refugees

***HIST 198bR** Science and Technology in the 20th Century

***HIST 199b** Utopian Thought and Western Culture

HIST 200a Colloquium in American and European Comparative History Since the 18th Century

HISTORY OF IDEAS (See Philosophy and History of Ideas)

HUMANITIES

HUM 1a Sec. 1 (ENG 18a Sec. 1) The Representation of Experience in the Western World from Homer and Hesiod Through Plato

HUM 1a Sec. 2 (ENG 18a, Sec. 2) Humanities I

HUM 4a,aR (AMSTD 8a,aR) (ENG 6a,aR) American Literature from 1832 to 1900

HUM 4b,bR (AMSTD 9a,aR) (ENG 7a,aR) American Literature from 1900 to 1965

***HUM 6a,b (NEJS 96a,b)** Leading Ideas and Motifs in Biblical Literature

HUM 61a (ENG 77a) Modern Novel

HUM 125a (ENG 142bR) (THA 170bR) Medieval European Drama

INDEPENDENT CONCENTRATIONS

In choosing a concentration, a student may propose a program that combines academic work in several departments. The proposal requires the support of at least two departments and of one member of each supporting department who will agree to serve on the student's Concentration Committee. This program shall be limited to a total of about 30 students in the College.

Students who wish to develop a proposal for an independent concentration should consult the Office of the Dean of the College.

ITALIAN LANGUAGE AND LITERATURE

Faculty: See ROMANCE AND COMPARATIVE LITERATURE

The offering in Italian literature marked # below is open to all students and is conducted in English with a dual reading list. Each text is available in the original language and in English translation. Students wishing credit toward Italian literature for this course will be required to do all the reading in the original. This course meets the Distribution Requirement in the Humanities, but does not meet the Foreign Literature Requirement.

ITAL 1 Beginning and Elementary Italian

ITAL 5a Intermediate Italian

ITAL 6b Readings in Italian: An Introductory Course

ITAL 98a,b Independent Study

ITAL 105a Advanced Conversation and Composition

***ITAL 110b** Modern Italian Literature

***#ITAL 140a** Dante's *Divine Comedy*

JEWISH COMMUNAL SERVICE

Associate Professor Bernard Riesman, *Director;* Professors Marvin Fox*, Arnold Gurin, Robert Perlman, Marshall Sklare; Associate Professor Leon A. Jick; Visiting Associate Professor Barry Chazan; Assistant Professor Jonathan S. Woocher; Lecturer Mildred Guberman.**

The Benjamin S. Hornstein Program in Jewish Communal Service

The graduate program in Jewish Communal Service is a two-year educational program for students interested in professional careers in the Jewish community. Graduates of this program serve as professional staff in Jewish federations, Jewish community centers, Hillel foundations, and similar institutions in the Jewish community.

Full details on admissions policy and the program of study are available in the Brandeis graduate catalog.

***JCS 127b (NEJS 127b)** The Jewish Liturgy

***JCS 150aR (GER 150aR)** The Jewish Contribution to German Literature

JCS 153a Policy Issues in American Jewish Communal Life

JCS 157a (NEJS 157a) Israeli Society

JCS 159a Philosophy of Jewish Education

JCS 159b Curriculum Development and Jewish Education

JCS 160a (NEJS 160a) The Emergence of the American Jewish Pattern

JCS 161a (NEJS 161a, SOC 118a) American Jewish Life and Institutions

JCS 162b Ideological Currents in Contemporary Jewish Life

***JCS 163a (NEJS 163a)** The Sociology of the American Jew

***JCS 164b (NEJS 164b, SOC 118b)** The Sociology of the American Jewish Community

JCS 167a (NEJS 162a) Jewish Identity in the Modern World

JCS 169aR (NEJS 169aR) The Destruction of European Jewry

LATIN (See Classical and Oriental Studies)

LATIN AMERICAN STUDIES

Committee: Professor Milton Vanger, *Chairman and Advising Head;* Professors George L. Cowgill, James E. Duffy, Donald Hindley, David Kaplan, Richard S. Weckstein; Associate Professors Robert C. Hunt, Benson Saler, Luis E. Yglesias; Assistant Professors Harry L. Rosser, Judith F. Zeitlin, Robert N. Zeitlin; Lecturer Pierre-Yves Jacopin.

The Latin American Studies concentration combines the insights of several disciplines with density of information on Latin America, offering both analytical breadth and personal interest. Study in Latin America for a term or a year is encouraged. Concentrators have studied in universities in Mexico, Ecuador, Colombia, Peru, and Brazil, as well as Spain, and other possibilities are available. For those students whose interests cannot easily be fitted into the

course requirements, or in the event a course is not offered, special readings courses or independent studies with members of the staff will be arranged. Courses, particularly in Portuguese and Latin American economic development, may be taken at neighboring institutions to Brandeis.

Students who are interested in Latin America, but do not concentrate in Latin American Studies, can enroll in the Program in Latin American Studies. The Program, open to students in any concentration at Brandeis, is a means for structuring their interest in Latin America. Each student in the Program will be assigned an advisor and participation and completion of the Program in Latin American Studies will be entered on permanent student records and transcripts.

Requirements for Concentration

A. LAS 100aR; HIST 71a and b; POL 144a and b; SPAN 160a.

B. At least two semester courses from: ANTHR 41a, ANTHR 144a, ANTHR 147b, ANTHR 160b, ANTHR 165a, ECON 75a, HIST 173b, HIST 176a, POL 13b, SOC 120a and b, SPAN 105b, SPAN 106b, SPAN 161a, SPAN 162b, SPAN 163b.

C. At least four semester courses in one discipline: ANTHR, HIST, POL, SPAN. (These may include courses taken under Requirement B, but not under Requirement A).

D. Senior Honors: Candidates for degrees with distinction must be approved by the committee.

Requirements for the Program

A. Passage of SPAN 6 or reading competency examination in Spanish or Portuguese (administered by LAS).

B. HIST 71a and b *or* POL 144a and b *or* two semester courses on Latin American Literature.

C. Two additional semester courses from at least two departments: HIST 71a and b; POL 144a and b; Latin American Literature; ANTHR 41a, 144a, 147b.

D. LAS 100aR.

LAS 98a,b Independent Study

LAS 99 Senior Research

LAS 100a (HIST 176bR) Why Democracy Collapses: The Uruguayan Case

***LAS 174a (HIST 174a)** The Contemporary Novel and Latin American Reality

***AAAS 199a** Introduction to the Cultural History of the Caribbean

ANTHR 41a Pre-Conquest Civilizations of Latin America

***ANTHR 144a** Indians of South America

ANTHR 147b Archaeology and Ethnohistory of Mesoamerica

***ANTHR 160b** An Anthropological Perspective on the Third World

ANTHR 165a Modernization and Social Change

ECON 75aR The Economics of Underdeveloped Countries

HIST 71a Latin American History, Conquest to 1890

HIST 71b Latin American History, 1890 to Present

***HIST 173b** The World and Latin America

***HIST 174a** The Contemporary Novel and Latin American Reality

HIST 176b Seminar on Latin American History: Militarism and Post-Militarism in Latin America

POL 13b Introduction to the Politics of Non-Western States

***POL 144aR** Political Change in Latin America I

POL 144b Political Change in Latin America II

***SOC 120a** Sociology of Underdevelopment I

SOC 120b Sociology of Underdevelopment II

SPAN 105bR Intermediate Conversation and Composition

***SPAN 106bR** Advanced Translation, Composition and Stylistics

SPAN 160a Studies in Latin American Literature I

***SPAN 160bR** Readings in Latin American Literature II

***SPAN 161aR** Masters of Modern Latin American Poetry

***SPAN 162b** Studies in Argentine and Brazilian Literature

SPAN 163b Colonial and Nineteenth Century Latin American Literature

LEGAL STUDIES PROGRAM

Committee:* Visiting Professor Saul Touster, *Chairman;* Professors Egon Bittner, Marvin Fox, Morton Keller***, Roy Macridis, Richard Weckstein, Peter Woll; Visiting Professor Leo Gross; Associate Professor William M. Goldsmith; Assistant Professors Jeffrey B. Abramson, Yale Braunstein, Marvin Davis, Gila Hayim, David Wong.**

***On Leave AY 1980-81

The Program in Legal Studies is designed to offer a limited number of Brandeis Juniors and Seniors the opportunity of studying the relationship of law to the social sciences and the humanities.

Each year the Committee on Legal Studies will select Sophomore applicants for entry into the Program in their Junior year. Juniors who wish to apply for entry in their Senior year will also be considered, but priority will be given to Sophomore applicants. ***Students accepted into the Program will keep their departmental concentration.***

Participants in the Program will be expected to meet the following requirements:

(1) Satisfactory completion of the Legal Process course (LEGAL 10a or 10b), preferably no later than the student's junior year.

(2) Satisfactory completion of at least three additional courses listed in the Program Curriculum (see below), not including LEGAL 99. ***No more than two of the three required Legal Studies courses may be taken from one department.***

(3) Satisfactory completion of a senior thesis in the field of legal studies, which may also satisfy the student's departmental honors requirement with the approval of the department.

(4) Satisfactory completion of the Law and Society course (LEGAL 102a), normally in the fall semester of the student's senior year.

LEGAL 10a (AMSTD 109a) The Legal Process: Law and Public Policy

LEGAL 98a,b Readings in Legal Studies

LEGAL 99 Senior Research

LEGAL 102aR (AMSTD 109b) Topics in Law and Society

***AMSTD 120a** Law and Society

ANTHRO 120b The Anthropology of Law

***ANTHRO 156a** Political Anthropology

ECON 74bR Law and Economics

***ECON 179b** The Legal Regulation of Economic Activity

***HIST 124a** Topics in English Constitutional History

***HIST 124b** Topics in Historical Jurisprudence: The English System of Law

***HIST 167b** Topics in Legal American History

***NEJS 50a** Jewish Legal Concepts and Values

PHIL 142aR Philosophy of Law

POL 97b Seminar on Constitutional Law

***POL 112a** The Judicial Process

***POL 114aR** The Legal Process: Law and Public Policy

POL 115a History of American Constitutional Law and Theory

POL 116b Civil Liberties in America

POL 117a Administrative Law

POL 167b Seminar on International Law

SOC 5a Introductory Criminology

***SOC 163b** Therapy and Punishment (Criminology II)

SOC 188bR Sociology of Law

LINGUISTICS

Concentration Committee: Professor Ray S. Jackendoff, *Chairman;* Professor James Lackner; Associate Professors Judith Irvine, Joan Maling; Assistant Professor Jane Grimshaw; Lecturer *(with rank of Assistant Professor)* David A. Hanson.

The concentration in linguistics is designed to give students a foundation in the theory of language. It emphasizes the approach of transformational generative grammar, which attempts to describe what it is that one knows when one knows how to speak a language. In the last fifteen years, this approach to the study of language has had a profound influence on fields as diverse as philosophy, psychology and anthropology, as well as on the linguist's traditional concerns with modern and classical languages and with linguistic universals.

Requirements for Concentration

A. Nine semester courses are required of all candidates:
   1) LING 100a, LING 110a, LING 120b
   2) Two additional linguistics courses numbered below LING 140
   3) Three additional semester courses to be chosen from the remaining linguistics courses and/or the list of electives below.
   4) One advanced language course from the following list: FREN 106b, GER 106a, HEB 106a, RUS 106b, SPAN 106b

B. Candidates for Honors must complete an additional course, LING 99.

C. A grade of C or better is necessary in all courses offered toward a concentration in linguistics. No course offered toward the concentration requirements may be taken on a pass/fail basis.

D. Students may petition the Linguistics Concentration Committee for changes in the above program.

ELECTIVE COURSES

RUS 112b Theory of Language (Proto-Slavic)

RUS 161b Structure of Modern Russian

ANTHR 102a Anthropological Linguistics I

ANTHR 102b Anthropological Linguistics II

ANTHR 103b Language, Society and Culture

PHIL 15a Logic

PHIL 85a Philosophy of Language

PHIL 115a Intermediate Logic

PHIL 121b (MATH 125b) Foundations of Mathematics

COSCI 35a Formal Languages and Syntactic Analysis

PSYCH 144b Psychology of Language

LING 98a,b Independent Study

LING 99 Senior Research

LING 100a,aR Introduction to Linguistics

LING 110a Phonological Theory

LING 112b Introduction to Historical Linguistics

LING 120b Syntactic Theory

LING 122b Syntactic Investigations in an Unfamiliar Language

***LING 125b** Advanced Syntactic Theory

***LING 130a (PHIL 196a)** Semantics

***LING 140aR (ENG 198aR)** History of the English Language

LING 173aR (PSYCH 173aR) Psycholinguistics

LING 194bR (PSYCH 194bR, PHIL 194bR, DC 76D) Language and Mind

LING 197a (PSYCH 197a) Language Acquisition and Development

LING 198b (PSYCH 198b) The Language of Thought

LING 199a Directed Research in Linguistics

MATHEMATICS

Professor David A. Buchsbaum, *Chairman*; Professors Maurice Auslander, Edgar H. Brown, Jr., David Eisenbud, Harold I. Levine**, Jerome P. Levine, Teruhisa Matsusaka, Alan L. Mayer***, Paul H. Monsky, Richard S. Palais; Associate Professor Gerald W. Schwartz; Visiting Associate Professors Pierre Van Moerbeke*, Walter Neumann; Adjunct Associate Professor Joseph Becker; Assistant Professors Allan Adler***, Robert M. Ephraim, Michael Harris, Kiyoshi Igusa, Andrew Nicas, Ziv Ran, Charles Rockland***; Visiting Assistant Professors Mark Adler, Dieter Happel, Glenn Stevens.**

* On Leave Fall Term 1980-81
** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

1. Mathematics 21a and b or 22a and b

2. Mathematics 30a and b

3. Mathematics 45a or 45aR

4. Mathematics 35a and b or Mathematics 40a and b

5. One additional semester course in mathematics numbered 29 or higher. It is possible to substitute for this requirement certain approved courses in related areas such as computer science, physics, economics, etc. Such substitutions must be approved ***in writing*** by the undergraduate advisor.

A degree with distinction requires an additional two semesters of mathematics (numbered 29 or higher), but one of these may be in related areas (as above) subject to written approval of the undergraduate advisor. In addition, the student's program must include at least four se-

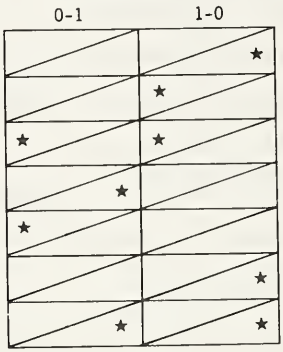
mesters of ***honors*** courses, passed with a grade of B or higher. The ***honors*** courses are Math 32, 33, 34, 38, 40, 42 and all courses numbered 100 or higher with the exception of Math 125, 150. Students intending to pursue graduate study are strongly urged to take the degree with distinction and include at least one 100 level course in their program.

The following schedule determines course offerings in Mathematics:

1. Offered every semester are MATH 1, 5, 8, 10a and b, 15, 20, and 21a and b.

2. Offered once each year are MATH 11a and b, 12a and b, 30a and b, 35a and b, 36a and b, 40a and b.

3. In addition, the following semester courses are regularly offered according to the following schedule where 0-1 indicates even-odd years (1980-81 for example) and 1-0 indicates odd-even years (i.e. 1981-82):



MATH 32 Differential Geometry

MATH 33 Topics in Algebra

MATH 34 Introduction to Topology

MATH 37 Differential Equations

MATH 38 Number Theory

MATH 42 Algebraic Geometry

MATH 45 Complex Variables

Note: Slashes distinguish between Fall and Spring semesters.

4. Other semester courses (such as MATH 29, Numerical Analysis, and MATH 43, Topics in Mathematical Physics) are offered from time to time.

MATH 1a,aR Introduction to Mathematical Concepts

MATH 5a,aR Precalculus Mathematics

MATH 8a,aR Introduction to Probability

MATH 10a,aR Techniques of Calculus: Differential Calculus

MATH 10b,bR Techniques of Calculus: Integral Calculus

MATH 11a Introductory Calculus: Differential Calculus

MATH 11b Introductory Calculus: Integral Calculus

MATH 15a,aR Applied Linear Algebra

MATH 18aR Mathematical Statistics

MATH 20a,aR Techniques of Calculus: Calculus of Several Variables

MATH 21a,aR Intermediate Calculus: Linear Algebra and Calculus of Several Variables, Part 1

MATH 21b,bR Intermediate Calculus: Linear Algebra and Calculus of Several Variables, Part 2

MATH 22a,b Honors Calculus of Several Variables and Linear Algebra

MATH 29a (COSCI 29a) Discrete Mathematics

MATH 30a,b Introduction to Algebra

MATH 31a,aR Basic Mathematical Methods for Problems in Physical Sciences

MATH 34a Introduction to Topology

MATH 35a,b Advanced Calculus

MATH 36aR Probability and Statistics, Part 2

MATH 37aR Differential Equations

MATH 38bR Number Theory

MATH 40a,b Introduction to Real Analysis

MATH 45aR Introduction to Complex Analysis

MATH 101a,b Algebra I

MATH 105aR (PHIL 121b) Introduction to the Foundations of Mathematics

MATH 110a,b Geometric Analysis

MATH 111a,b Analysis I

MATH 121a,b Topology I

MATH 143aR Introduction to Hamilton Mechanics

MEDIEVAL STUDIES PROGRAM

Committee: Professors Margaret Bent (MUSIC), Marvin Fox* (NEJS), Joachim E. Gaehde (FA), Alfred Ivry (NEJS), William A. Johnson (PHIL), Nahum M. Sarna (NEJS), Douglas J. Stewart (CLORS); Associate Professor Richard H. Lansing (COLIT); Asistant Professors Maureen Boulton (ROMCL), Judith Ferster*** (ENG), George Joseph (COLIT), William Kapelle (HIST), Reuven Kimelman (NEJS), Edward Nowacki (MUSIC).**

*** On Leave AY 1980-81

An interdisciplinary program for students concentrating in existing departments in the University. The aim of the program is to allow students with an interest in the Middle Ages to acquire a wider knowledge of the culture of the period than is possible within existing concentrations. The transcript of participating students will show that they have completed the requirements of the program. Courses in the program are conducted both individually and jointly by members of the faculty of the Medieval Studies Program. Students may elect the Medieval Studies Program in addition to their concentration.

Requirements:

1. The core of the program is composed of HIST 21a (Medieval Civilization) and the Senior Seminar in Medieval Studies. These courses are required of those who elect the program.

2. Students in the program must complete the University language requirement by the middle of the junior year in one of the following: French, Italian, Spanish, German, Latin, Greek, Arabic, or Hebrew.

3. At least four other courses from the list selected in consultation with the Medieval Studies adviser. (Normally two of these courses will be outside the student's field of concentration.)

***COLIT 102a** Love in the Middle Ages

***ENG 122a** Old English

***ENG 122b** Old English Epic

ENG 132bR Chaucer

***ENG 142bR (HUM 125a)** Medieval European Drama

FA 41a Art of the Middle Ages I

FA 42b Art of the Middle Ages II

***FREN 112aR** The French Middle Ages

***GER 102a** German Literature Before 1700

***HIDEA 125a** Major Issues of the Christian Tradition

***HIST 21a** The Rise of Europe

HIST 120a Senior Seminar in Medieval Studies

***ITAL 140a** Dante's *Divine Comedy*

***MUSIC 101a** History of Medieval and Renaissance Music

***NEJS 103a** Introduction to Islamic Civilization and Institutions

***NEJS 103b** Faith and Reason in Islam

***NEJS 131a (PHIL 131a)** History of Jewish Philosophy: From Antiquity to the Twelfth Century

***PHIL 107b** Medieval Philosophy

MUSIC

Profesor Margaret H. Bent, *Chairman and Director of Graduate Studies*; Professors Caldwell Titcomb *(Co-Chairman and Director of Undergraduate Studies)*, Martin Boykan, Paul H. Brainard, Robert L. Koff *(Director of Performing Activities)*, Donald Martino, Harold S. Shapero *(Director of Electronic Studios)*; Associate Professors Allan R. Keiler*, James D. Olesen, Joshua Rifkin; Assistant Professors David M. Hoose, Edward Nowacki, Conrad M. Pope *(Theory Coordinator)*; Instructors Allen L. Anderson, Ross Bauer, Peter B. Child, C. Howard Treibitz; Performing Artists-in-Residence Timothy A. Aarset, Boris Berman, Rosalind D. Koff, Eva Linfield.**

*** On Leave AY 1980-81

The program of concentration in music offers a broad perspective in keeping with the liberal-arts philosophy of the University. Concentrators gain experience in three fundamental areas: history, theory, and performance. The four-semester survey of music history examines the styles, forms and compositional techniques of Western music in its cultural and historical context and seeks to provide a close acquaintance with representative musical literature. The sequence of music theory courses aims to provide training in the basic musicianship skills

necessary for all musical endeavors as well as the more specific skills required for musical analysis and composition. MUSIC 96c and related courses offer the opportunity to study the interpretation of music through private and group instruction with faculty members, artist-in-residence, and distinguished artists in the Boston area.

Before admission to concentration, candidates will normally pass MUSIC 61 during their freshman year with a satisfactory grade, and must demonstrate competence at the keyboard. Instruction under the basic piano program is offered for those who are deficient at the keyboard. The required proficiency must normally be demonstrated by the end of the sophomore year. No fee is charged for this instruction and no credit is granted.

Requirements for Concentration

A. The program of concentration will normally include the following: (1) Three years of music theory (MUSIC 61, 162, 164) and three years of theory lab (MUSIC 62, 163, 165); (2) four semesters of music history (MUSIC 101 and 102). Students may petition the department to substitute other music history courses for parts of Music 101 and 102; (3) the first semester of tutorial in analysis (MUSIC 197a); and (4) one additional course in music so as to complete a total of twelve semesters, excluding only courses numbered below 60, MUSIC 96c and MUSIC 135c.

Alternate Programs: At any time prior to the completion of the junior year, the student may, in consultation with his or her advisor, submit an alternate proposal for the completion of his or her concentration. Such proposals will be considered by the department on the basis of their coherence and appropriateness to specific goals. They must in any case include the first two years of theory (or the equivalent). The balance of the program may be constituted as described under (4) above, but may also include a maximum of two semester courses in other departments; these must be justified in terms of the projected program of study.

B. All concentrators in music are expected to participate in the supervised performance activities of the Music Department, such as Early Music Ensemble, Orchestra, Chorus, Music E, and in Music Colloquium.

C. Additional requirement for candidates for degrees with distinction: To be eligible for honors in music at graduation, candidates must demonstrate superior ability through their over-all record, and a capacity for independent thought beyond the limits of their course program.

MUSIC 1a Introduction to Music

MUSIC 1b Introduction to Non-Western Musics

MUSIC 5a,b Fundamentals of Music

MUSIC 31a (AAAS 104a) Black Life Styles through Music

MUSIC 31b (AAAS 105b) The Music of Black Americans

***MUSIC 34a** The Literature of Chamber Music: Baroque and Classical

***MUSIC 35aR** The Literature of Chamber Music: Romantic and Modern

MUSIC 37bR The Symphony

MUSIC 38bR The Opera

MUSIC 39bR Musical Theater Since Gilbert and Sullivan

MUSIC 42aR Johann Sebastian Bach

MUSIC 45aR Beethoven

***MUSIC 48a** Brahms and Mahler

MUSIC 50c Studies in the Analysis and Performance of Orchestral and Choral Music

***MUSIC 57b (DC 79J)** Structuralism and Semiotics

MUSIC 59b Freshman Tutorial in Repertory and Analysis

MUSIC 61 Theory I

MUSIC 62c Theory Lab I

MUSIC 70a (AAAS 72a) A History of Jazz

MUSIC 96c Lessons in Instrumental and Vocal Performance

MUSIC 97c Directed Independent Study

MUSIC 98a,b Readings in Music History and Theory

MUSIC 99 Senior Research

***MUSIC 101a** History of Medieval and Renaissance Music

***MUSIC 101b** History of Baroque and Pre-Classical Music

MUSIC 102a History of Classical and Romantic Music

MUSIC 102b History of 20th-Century Music

MUSIC 134c Studies in the Analysis and Performance of Chamber Music

MUSIC 162 Theory II

MUSIC 163c Theory Lab II

MUSIC 164 Theory III

MUSIC 165c Theory Lab III

MUSIC 168a Orchestration

***MUSIC 171a (THA 171a)** History of Music and Drama Criticism

MUSIC 176a Musical Cognition

MUSIC 180bR Ethnomusicology

MUSIC 182aR Medieval and Renaissance Periods

***MUSIC 183a** Baroque and Pre-Classical Periods

MUSIC 184a Classical and Romantic Periods

***MUSIC 185a** Twentieth Century

MUSIC 197a Tutorial in the Analysis of Tonal Music

MUSIC 197b Tutorial in the Analysis of 20th Century Music

MUSIC B Basic Piano

MUSIC C Chorus

MUSIC D Early Music Ensembles

MUSIC E Ensemble and Orchestra

MUSIC COLLOQUIUM

NEAR EASTERN AND JUDAIC STUDIES

Professor Marvin Fox, *Chairman**; Associate Professor Avigdor Levy, *Acting Chairman*; Professors Alexander Altmann (Emeritus), Naftali C. Brandwein, Nahum N. Glatzer (Emeritus), Alfred L. Ivry, Nahum M. Sarna, Marshall Sklare, Dwight W. Young**; Visiting Professors Calvin Goldscheider, Simon Herman; Associate Professors Michael Fishbane, Ariella Goldberg (Adjunct), Leon A. Jick*, Benjamin C. I. Ravid, Joshua Rothenberg (Emeritus); Visiting Associate Professors Tzvi Abusch, Paul Mendes-Flohr, Shimon Sharvit; Assistant Professors Aaron L. Katchen, Reuven R. Kimelman**; Lecturer Charles Cutter.**

* On Leave Fall Term 1980-81
** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

Each concentrator's plan of study is to be prepared with the student's advisor. The courses for the concentration should form a coherent pattern of study.

A. Fixed Requirements:

1. Hebrew 6 (2 semesters).
2. One semester course in Biblical Texts. Only courses with a prerequisite of Hebrew 6 are acceptable.
3. One semester course in post-biblical Jewish History.
4. One semester course in Jewish Philosophy or Jewish Thought.
5. One semester course in Modern Hebrew Literature.

A listing of the courses currently offered that will satisfy each of the fixed requirements is available in the Department office.

The Fixed Requirements must be completed at Brandeis University. Transfer credit is not acceptable for these required courses. In the case of Hebrew 6, a student may satisfy the requirement either by completing the course or by gaining exemption through the departmental Placement Test.

B. ***Electives:*** Each concentrator is required to complete, in addition to the Fixed Concentration Requirements, five semester elective courses in the Department of NEJS. At least one of these courses must be in the field of Jewish history.

C. Additional requirement for candidates for degrees with distinction: NEJS 99. Students proposing to seek honors should petition the Department for approval of their plans.

D. NEJS concentrators who have a weak background in Judaic studies will find various informal Hillel study groups of great value, though they carry no university credit.

Evaluation of Transfer Credits

A. By departmental rule a maximum of four semester course credits for courses taken at other universities may be accepted toward the elective part of the NEJS concentration requirements. Each course transferred from another university must have the approval of the Department in order to be acceptable for credit toward the concentration requirements. This rule applies to courses completed at any other institution, whether in the United States or Israel. Credits from recognized universities in Israel are evaluated as follows:

(1) Trimester System

No. Class Hours Per week	No. of Trimesters	Credit Value
2 or 3	1	0
4	1	4
2	2	4
3 or 4	2	6
3 or 4	3	8

(2) Semester System

Four credits for each three hours per week semester course, or for a two semester two hours per week course. No credit can be given for a semester course of less than three hours per week.

Credit is not granted for Ulpan courses. Students are free to take the Hebrew Placement Test.

B. Entering freshmen and entering transfer students are required to take the Hebrew Placement Test if they plan to enroll in any course in Hebrew above the level of HEB 1. If they are exempted from HEB 6a, they will have fulfilled the university foreign literature requirement. In addition, entering students who have had no college level courses in Hebrew will receive two semester course credits if they are exempted from Hebrew 6a through the Hebrew Placement Test. This opportunity is available to students only at the time they first enter Brandeis University. Students who place below the level of Hebrew 6a receive no course credit, and if they decide to study Hebrew are placed in the appropriate class level.

HEB 1aA Intensive Introductory Hebrew

HEB 1 Introductory Hebrew

HEB 2 Intermediate Hebrew

HEB 2aA Intensive Intermediate Hebrew

HEB 2bB Intensive Intermediate Hebrew

HEB 3 Advanced Hebrew

HEB 3aA Intensive Advanced Hebrew

HEB 6a,aR,b,bR Introduction to Hebrew Literature

HEB 106a Advanced Hebrew Stylistics

***NEJS 1a** Judaism: Its Thought, Culture, and History; An Introduction to Judaic Studies

***NEJS 5b** Freshman Seminar: The Beginnings of Judaism and the First Jewish Historian

***NEJS 10a (CLORS 12a)** Historical Geography of Israel

***NEJS 11b (CLORS 11b)** History of Ancient Israel

NEJS 12a Hebrew Origins

NEJS 16Ha Biblical History

***NEJS 20Ha** Social and Intellectual History of the Jews in the Modern Period

NEJS 21 (Y 1) Introductory Yiddish

***NEJS 21aA (Y 1aA)** Intensive Introductory Yiddish

NEJS 24 (Y 2) Intermediate Yiddish

***NEJS 25a,b (Y 6a,b)** Introduction to Yiddish Literature

***NEJS 50a** (See Legal Studies) Jewish Legal Concepts and Values

NEJS 51a The Thought-World of the Talmud

NEJS 53bR Introduction to Talmud

NEJS 60a The Book of Genesis

NEJS 64b (PHIL 64b) Modern Jewish Thought

NEJS 68a (HIST 68a) History of the Jews from Ezra to the Spanish Expulsion of 1492

NEJS 68b (HIST 68b) History of the Jews from the Spanish Expulsion of 1492 to the Present

NEJS 90aR Readings in Bible: Images of Women in Biblical Literature

***NEJS 93b (COLIT 101b, ENG 88b)** Homer and the Bible

***NEJS 95bR** The Book of Jeremiah

***NEJS 96a,b (HUM 6a,b)** Leading Ideas and Motifs in Biblical Literature

NEJS 98a,b Independent Study

NEJS 99 Senior Research

NEJS 101 (ARAB 101) Introductory Literary Arabic

NEJS 102 (ARAB 102) Intermediate Literary Arabic

***NEJS 103a (CLORS 103a, DC 79)** Introduction to Islamic Civilization and Institutions

NEJS 103b Faith and Reason in Islam

NEJS 104bR Aramaic Dialectology

***NEJS 106 (UGAR 101)** Elementary Ugaritic

***NEJS 108b (CLORS 108b)** Comparative Grammar of Semitic Languages

***NEJS 109a** The Patriarchal Narratives in Light of Near Eastern Documents

***NEJS 110b** Problems in Biblical History

NEJS 110Ha (CLORS 110Ha) Jerusalem: An Archaeological Study of Urban Forms in Pre-Modern Times

***NEJS 112a** Biblical Hebrew

***NEJS 112b** Deutero-Isaiah

***NEJS 113a** Targum

NEJS 113b The Book of Exodus

***NEJS 114a** The Book of Amos

***NEJS 114b** The Art of the Biblical Narrative

***NEJS 115a** Book of Deuteronomy

***NEJS 116b** The Problem of Evil in Jewish Philosophy

***NEJS 117a** Job and the Problem of Evil

***NEJS 117b** Dead Sea Scrolls

***NEJS 118b** The Book of Psalms

***NEJS 119aR** The Book of Ezekiel

***NEJS 119b** The Minor Prophets: Nahum, Habakkuk, Zephaniah

NEJS 120b Intermediate Talmud

***NEJS 123bR** Classical Biblical Commentaries

***NEJS 124aR (HIDEA 124aR)** Modern Jewish-Christian Religious Thought

***NEJS 125a** Midrashic Literature: Mekhilta d'Rabbi Yishmael

***NEJS 125b** Midrashic Literature: Sifre Deuteronomy II

***NEJS 127a** Hellenistic Jewish Literature

***NEJS 127b** The Jewish Liturgy

***NEJS 128a (HIST 105a)** History of the Second Jewish Commonwealth: To the End of the Maccabean Period

***NEJS 128b (HIST 105b)** History of the Second Jewish Commonwealth: From Herod to Bar Kokhba

***NEJS 129a** Philo Judaeus of Alexandria

NEJS 129b (CLORS 129b) Alexandria: The City and the Idea

NEJS 130a Images of Moses: Ancient and Modern.

NEJS 131a (PHIL 131a) History of Jewish Philosophy: From Antiquity to the 12th Century

***NEJS 132b (PHIL 135b)** Philosophy of the Kalam

***NEJS 135a** Neoplatonic Elements in Islamic and Jewish Philosophy

NEJS 135bR Aristotelian Elements in Islamic and Jewish Philosophy

***NEJS 138a** Modern Hebrew Literature

***NEJS 138b** Modern Hebrew Literature

NEJS 139a The Jew and His Realia

***NEJS 139b** Modern Hebrew Literature

***NEJS 140a (HIST 118a)** The Jews in Europe to 1492

***NEJS 140b (HIST 118b)** The Jews in Europe from 1492 to 1800

***NEJS 141a** Introduction to Jewish Historiography

***NEJS 141b (HIST 130b)** Jews, Catholics, and Protestants in Western Europe, 1517-1867

***NEJS 142b (HIST 119b)** Economic History of the Jews to the Emancipation

***NEJS 144a (HIST 137a)** Jewish Communities in the Muslim Near East in the 19th and 20th Centuries

***NEJS 144b (HIST 137b)** Nationalism in the Modern Near East

***NEJS 145b** The Near East in the 20th Century

NEJS 147a (HIST 134a) History of the Near East and the Ottoman Empire

NEJS 147b (HIST 135b) The Arab-Israeli Conflict

NEJS 150a Foundations of Zionist Thought

***NEJS 151a (PHIL 153a)** Introduction to Islamic Philosophy

NEJS 152b History of Anti-Semitism

NEJS 153b Marranos and Conversos: The Jews and Iberian History from 1391

NEJS 154aR History of the Hebrew Language

NEJS 156b Man and the Gods

NEJS 157a (JCS 157a) Israeli Society

NEJS 158bR Biblical Prophecy: Book of Jeremiah

NEJS 160aR (JCS 160aR) The Emergence of the American Jewish Pattern, 1654-1967

NEJS 161a (JCS 161a, SOC 118a) American Jewish Life and Institutions

NEJS 162a (JCS 167a) Jewish Identity in the Modern World

***NEJS 163a (JCS 163a)** The Sociology of the American Jew

***NEJS 164b (JCS 164b, SOC 118b)** The Sociology of the American Jewish Community

NEJS 166aR Modern Jewish Intellectual History

***NEJS 168a** Jewish Life and Institutions in Eastern Europe, 1880-1918

***NEJS 168b** History of the Jews in the Soviet Union

NEJS 169aR (JCS 169aR) The Destruction of European Jewry

***NEJS 170b** Jewish Life and Institutions in Eastern Europe, 1918-1939

***NEJS 171b (Y 171b)** Trends and Values in Yiddish Literature

***NEJS 173b (Y 173b)** Seminar in Yiddish Literature: Contemporary Poetry

***NEJS 174b** *Pirke Avot — The Sayings of the Fathers:* In Its Historical Setting

***NEJS 175a** History of Zionism

***NEJS 176a** Judaism and Christianity in the First Centuries

NEJS 182a,b Introduction to Jewish Bibliography

NEJS 187b Biblical Images, Motifs and Ideas in Modern Hebrew Poetry

The following courses, which are offered in the Department of Classics and Oriental Studies, are of special interest to NEJS students in the fields of Ancient Near East, Semitics, and Biblical Studies:

AKKAD 101 Elementary Akkadian

AKKAD 102a Advanced Akkadian I: Assyrian Royal Inscriptions

AKKAD 102b Advanced Akkadian II: Literary Texts

CLORS 111 The Archaeology of Syria-Palestine

CLORS 165 History of Mesoptamia

EGYPT 101 Elementary Egyptian

EGYPT 107 Advanced Egyptian IV: Hymns and Poems

PHILOSOPHY AND HISTORY OF IDEAS

Professor Frederic T. Sommers, *Chairman*; Professors Henry D. Aiken (Emeritus), William A. Johnson, Morris Weitz*; Visiting Professor Gershon Weiler; Associate Professor Robert S. Greenberg; Visiting Associate Professor Ann R. Cacoulos; Assistant Professors Robert Hahn, Hyun Höchsmann, Aris Noah, David Wong; Lecturer with the rank of Assistant Professor Izchak Miller.

* On Leave Fall Term 1980-81

Requirements for Concentration

Required of all candidates: eight semester courses in philosophy.

A. Five must be Systematic, including at least (a) two Introductory or Intermediate, (b) two Advanced, and (c) one Logic.

B. Three must be Historical, including at least (a) one Introductory or Intermediate and (b) one Advanced.

C. Students who wish to apply a cross-listed course toward the philosophy concentration requirements must petition the department for approval.

PHIL 1a,b Introduction to Philosophy: Problems of Philosophy

PHIL 3a Foundations of Western Intellectual Tradition: Antiquity to the Renaissance

PHIL 3b Philosophical Ideas in Western Civilization II

PHIL 9b Philosophical Issues in Modern Intellectual History

PHIL 10aR Philosophical Bases of Western Culture

PHIL 11a History of Ancient Philosophy

PHIL 11b History of Modern Philosophy

PHIL 12a Philosophy, Science and Society: The Origin and Development of Philosophical Thought

PHIL 13a Philosophy of Art

PHIL 14b Philosophy in Literature

PHIL 15a Introductory Logic

PHIL 17a Introduction to Ethics

PHIL 19a Ancient Social Thought

PHIL 52a Philosophy of Religion

PHIL 60b (PHSCI 3b) 20th-Century Physics and Its Philosophical Implications

PHIL 64b (NEJS 64b) Modern Jewish Thought

PHIL 72a Continental Rationalism

PHIL 73b British Empiricism

***PHIL 85a** Philosophy of Language

PHIL 98a,b Readings in Philosophy

PHIL 99 Senior Research

PHIL 101b Philosophy of Psychology

PHIL 105aR Plato

***PHIL 107b** Medieval Philosophy

PHIL 109a Philosophical Approaches to Metaphor and Figurative Language

***PHIL 110b** Introduction to Marxism

PHIL 113b Aesthetics

PHIL 115aR Intermediate Logic

***PHIL 116b** History of Modern Ethical Theory

PHIL 117b Topics in Ethical Theory

PHIL 118bR Modern Phenomenology

***PHIL 119a** Theory of Knowledge

PHIL 121b (MATH 105aR) Foundations of Mathematics

***PHIL 124b** Concepts: Their History and Variety

PHIL 127b Comparative Ethics

PHIL 130aR Philosophy of Logic

***PHIL 131a (NEJS 131a)** History of Jewish Philosophy from Antiquity to the 12th Century

***PHIL 132a** Nineteenth Century Philosophy

PHIL 132bR Post-Kant Idealism

PHIL 133bR Contemporary Analytic Philosophy

PHIL 134aR Existential Philosophy

***PHIL 135bR (NEJS 135bR)** Philosophy of the Kalam

PHIL 135bR (NEJS 135bR) Aristotelian Elements in Islamic and Jewish Philosophy

PHIL 139a (DC 77D) Human Rights

PHIL 140bR Philosophy of Science

PHIL 142aR Philosophy of Law

***PHIL 144b** Philosophy of Hume

***PHIL 145b** Hegel

***PHIL 147a** American Pragmatism

PHIL 150aR Wittgenstein

***PHIL 153a (NEJS 151a)** Introduction to Islamic Philosophy

***PHIL 156b** Philosophy of Mind

PHIL 158a Metaphysics

PHIL 164b Advanced Studies in Philosophy of Religion

PHIL 167aR Kant

PHIL 181bR Theological Politics

PHIL 194bR (LING 194bR, PSYCH 194bR, DC 76d) Language and Mind

***PHIL 196a (LING 130a)** Semantics

HISTORY OF IDEAS

***HIDEA 110bR (SOC 110bR)** Sociology of Knowledge

***HIDEA 124aR (NEJS 124aR)** Modern Jewish-Christian Religious Thought

HIDEA 133a(DC 77G, HIST 133a) The Enlightenment

HIDEA 133b (DC 80, HIST 133b) Topics in 19th and 20th Century Intellectual History

HIDEA 141b (HIST 132b) Intellectual History of Modern Europe: 1857-Present

HIDEA 182b (POL 182b) Political Thought from the Renaissance to the Modern Age

PHOTOBIOLOGY (See Biology)

PHYSICAL EDUCATION

Professor Nicholas Rodis, *Chairman;* Professor Lisel K. Judge, *Director of Physical Education;* Associate Professor Norman E. Levine; Assistant Professor Thomas P. O'Connell; Lecturers Robert W. Brannum (with the rank of Assistant Professor), Michael W. Coven, Judith A. Houde, Robert J. Kelley, Jr., Mary E. Sullivan; Instructors Denise King, James Zotz.

PE 1a,aR Beginners Swimming

PE 1a,aR Intermediate Swimming

PE 2a,aR Beginners Tennis

PE 2a,aR Intermediate and Advanced Tennis

PE 3a,aR Body Conditioning

PE 4a,aR Lifesaving and Advanced Lifesaving

PE 5a,aR Weight Control

PE 6 Water Safety Instruction

PE 7a,aR Aerobic Dance: Exercise Dance

PE 8a,aR Beginners Fencing

PE 9a,aR Beginners Karate

PE 9a,aR Intermediate Karate

PE 10a,aR Jogging

PE 11a,aR Golf

PE 12a,aR Indoor and Outdoor Soccer

PE 13a,aR Softball-Basketball

PE 14a,aR Ballroom-Disco Dancing

PE 15a,aR Squash

PE 16a,aR Badminton

PE 17a,aR First Aid and CPR

PE 18a,aR Softball-Volleyball

PE 19a,aR Yoga

PE 20a,aR Athletic Training

PE 21a,aR Touch Football-Volleyball

PHYSICS

Professor Hugh N. Pendleton III, *Chairman and Coordinator of Physics Advising;* Professors Stephan Berko, Donald L. D. Caspar (Rosenstiel Center), Jacques Cohen, Stanley Deser*, Jack S. Goldstein, Marcus T. Grisaru, Eugene P. Gross, Peter Heller, Alfred G. Redfield (Rosenstiel Center), Howard J. Schnitzer, Silvan S. Schweber; Associate Professors Karl F. Canter, Max Chrétien *(Coordinator of Computer Science Advising),* Lawrence E. Kirsch *(Director, Feldberg Computer Center),* Robert V. Lange, Robert B. Meyer, Lawrence M. Schwartz, John F. C. Wardle, Hermann F. Wellenstein***; Assistant Professors Laurence F. Abbott***, James R. Bensinger, James L. Black, Ellis S. Cohen, Mitchell L. Model, Richard A. Poster, David H. Roberts, Frank Sinclair, Charles Y. Young; Adjunct Assistant Professor Naomi B. Schmidt.**

*** On Leave AY 1980-81

Requirements for Concentration

A. The minimum requirement for concentration in physics is eleven semester courses in physics and two semester courses in mathematics. Of the eleven semester courses in physics, at least three must be semester courses in laboratory work, and two must be PHYS 30a and b. Mathematics and physics courses numbered under 10 may not be used to fulfill the physics concentration requirement. Freshmen interested in concentrating in physics should enroll in PHYS 11a and 19a, or should consult the physics advising coordinator during the first week of classes in the fall.

B. Students not intending to pursue graduate study in physics may be permitted to substitute advanced courses in other fields to meet physics concentration requirements, subject to the approval of the department. Students with a concentration in physics and an interest in biophysics may want to take courses in biophysics, biology, biochemistry or chemistry. With departmental approval, they may use such courses to satisfy part of their physics concentration requirements.

C. Students intending to pursue graduate work in physics normally take PHYS 30a, b, 39a, b, 40a and 50a, b or graduate physics courses dealing with the same subjects at a more advanced level (selecting from PHYS 100a, 101a,b, 102a,b, 103a, 104b, 190a,b, and 110b).

D. Students who have attained a grade of 3, 4, or 5 on the Advanced Placement Examination Physics B may obtain credit for PHYS 10. Students who have attained a grade of 3, 4, or 5 on the Advanced Placement Examination Physics C may obtain credit for PHYS 11.

E. Additional requirement for candidates for degrees with distinction: PHYS 99 or two graduate semester courses *(with honor grades)*. A student must take PHYS 39a,b in order to take PHYS 99.

F. Students may be admitted to a special four-year M.A. program upon recommendation of the department and the Graduate School.

***PHSCI 1a** The Concepts of Physics

PHSCI 1b Concepts in Modern Electronics

PHSCI 2b,bR Introductory Astronomy

PHSCI 7a Symmetry and the Form of Matter

PHYS 10a Physics for the Life Sciences I

PHYS 10b Physics for the Life Sciences II

PHYS 11a Basic Physics I

PHYS 11b Basic Physics II

***PHYS 16b (PSYCH 176b)** Light, Color and Vision

PHYS 18a Introductory Laboratory I

PHYS 18b Introductory Laboratory II

PHYS 19a Physics Laboratory I

PHYS 19b Physics Laboratory II

PHYS 20a Basic Physics III

PHYS 20b Basic Physics IV

PHYS 25b Astrophysics

PHYS 29a Electronic Laboratory I

PHYS 29b Electronic Laboratory II

PHYS 30a Atomic Physics

PHYS 30b Nuclear Physics

***PHYS 31a** Methods of Mathematical Physics I

PHYS 32a (COSCI 32a) Logic Circuits and Computer Design Laboratory

PHYS 32b (COSCI 32b) Microprocessors

***PHYS 37a (BIOPH 101a)** Biophysical Optics I

***PHYS 37b (BIOPH 101b)** Biophysical Optics II

PHYS 39a Modern Physics Laboratory I

PHYS 39b Modern Physics Laboratory II

PHYS 40a Properties of Matter I

PHYS 40b Properties of Matter II

***PHYS 50a** Intermediate Classical Mechanics

***PHYS 50b** Intermediate Electromagnetism

PHYS 97a,b Tutorial in Physics

PHYS 98a,b Readings in Physics

PHYS 99 Senior Research

***PHYS 100a** Advanced Classical Mechanics

***PHYS 100b** Continuum Physics

PHYS 101a Electromagnetic Theory I

PHYS 101b Electromagnetic Theory II

PHYS 102a Quantum Mechanics I

PHYS 102b Quantum Mechanics II

PHYS 103aR Statistical Physics

PHYS 104a Solid State Physics I

***PHYS 104b** Solid State Physics II

PHYS 107bR Particle Physics

***PHYS 108b** Introduction to Astrophysics

PHYS 109a Advanced Laboratory I

PHYS 109b Advanced Laboratory II

PHYS 110a Mathematical Physics

PHYS 137a Science in the Second Half of the 19th Century

PHYS 152b (BIOPH 152b) Biological Assembly

POLITICS

Professor Donald Hindley, *Chairman;* Professors Marver H. Bernstein, Robert H. Binstock, Seyom Brown, Roy C. Macridis, Ruth S. Morgenthau, I. Milton Sacks, Peter Woll; Associate Professors Robert J. Art, Mark L. Hulliung, Martin A. Levin; Visiting Associate Professor Dov Ronen (Fall Term); Assistant Professors Jeffrey B. Abramson, Elliot Feldman*, Thomas Ilgen, Christopher Leman, Susan M. Okin, Ralph Thaxton; Visiting Assistant Professor Xandra Kayden.

* On Leave Fall Term 1980-81

Requirements for Concentration

A. Required of all candidates: POL 1a or 1aR.

B. Concentrators are required to complete at least ten semester courses in politics. POL 1a, 1aR will count toward this requirement, POL 98 (Independent Study) will count toward this requirement except for students concurrently taking POL 99 (Honors).

C. At least one course must be taken from each of the following fields: American Government, Comparative Government, International Relations, and Political Theory. (POL 1a, 1aR satisfies the Political Theory requirement.)

D. Candidates for departmental honors must complete POL 99.

E. With the consent of the department's undergraduate advisor, students may receive departmental course credits for up to two upper-level courses taken in related departments.

F. With the permission of the instructor, upperclassmen may enroll in politics graduate courses.

POL 1a,aR The Western Political Tradition

POL 11bR Introduction to European Government

POL 12b The Dynamics of Modern Government

***POL 13b** Introduction to the Politics of Non-Western States

POL 14b Introduction to American Politics

POL 14b,bR Introduction to American Government

POL 15a,aR Introduction to International Relations

***POL 94b** Seminar: Public Policy

POL 97a Sec. 1 The Policy Process in Communist States

POL 97a Sec. 2 Mediterranean Politics: Stability and Revolution

POL 97b Sec. 1 Political Careers

POL 97b Sec. 2 The Limits of the Market and Public Intervention

POL 97b Sec. 3 Seminar on Constitutional Law

POL 98a,b,c Independent Study

POL 99a,b Senior Research

AMERICAN GOVERNMENT

POL 101a Parties, Pressure Groups and Public Opinion

***POL 103b** Quantitative Methods for Political Science

***POL 107b** Politics of Public Policy

POL 108b Environmental and Natural Resources

POL 109b Federalism

POL 110b The Politics of Bureaucracy

POL 111a The American Congress

POL 113b The American Presidency

POL 115a (HIST 164a) History of American Constitutional Law

***POL 115b (HIST 164b)** American Constitutional Law and Theory

POL 116b Civil Liberties in America

POL 117a (LEGAL STUDIES) Administrative Law

***POL 118aR** Policy Formation (Seminar)

***POL 119a** Policymaking in Urban Areas (Seminar)

***POL 120aR** Politics of Urban Areas

***POL 122b (ECON 45b)** Policy Analysis and Policy Implementation

POL 123b The Politics of Urban Criminal Justice

POL 124a Labor and Politics in the United States

***POL 125a (AAAS 125a)** Political Development in the Black Community I

POL 125bR (AAAS 125bR) Political Development in the Black Community II

POL 205a Graduate Seminar in American Politics

COMPARATIVE POLITICS

POL 127aR Government and Politics of Canada

POL 128aR Contemporary Peasant Revolutions

POL 129aR The Politics of Eastern Europe

POL 130bR Soviet Domestic Politics

POL 131Ha Domestic and International Politics of Israel

***POL 140a (AAAS 160a)** The Politics of Africa

POL 141a (AAAS 161a) National and International Politics of Southern Africa

POL 141bR (AAAS 163bR) Africa in World Politics

POL 142aR (AAAS 175aR) Comparative Politics of North Africa

POL 144aR Political Change in Latin America I

***POL 144b** Political Change in Latin America II

POL 147aR Government and Politics of China

***POL 147b** Japan: Government and Politics

POL 148b Political Institutions

POL 150a Governments and Politics of Southeast Asia

POL 151b The Politics of Development

POL 154a Politics of Food Security

***POL 156b** European Political Systems

INTERNATIONAL POLITICS

POL 161b The Causes and Prevention of War

POL 164aR Comparative Foreign Policy

POL 166b Issues in International Political Economy

POL 167b Seminar on International Law

POL 168aR (HIST 163aR) American Foreign Relations in the 20th Century

POL 168b (HIST 163b) American Foreign Policy

POL 170bR The Third World in the Global Economy

***POL 171b** Multi-National Enterprise and National Power

POL 174a Problems of National Security

POL 175a International Relations in the Middle East

***POL 176b** International Organizations

POL 177aR Soviet Foreign Policy

***POL 204b** Graduate Seminar in International Relations

POL 178bR Comparative Asian Foreign Policies

POLITICAL THEORY AND METHODS

POL 182b (HIDEA 182b) Political Thought from the Renaissance to the Modern Age

POL 184a Utopia and Power in Modern Political Thought

***POL 185a** Public Policy and Political Theory

POL 188aR Political Thought from the Enlightenment to the Romantic Age

***POL 190a** Democratic Political Thought

***POL 193a** Theories of Political Sociology

***POL 195a** Communist Political Thought: Marx to Mao

***POL 195b** Marx: Social and Political Theory

***POL 196b (DC 75F)** Contemporary Political Theory

POL 198b Women in Western Political Thought

POL 206b Graduate Seminar in Political Theory

PSYCHOLOGY

Professor James R. Lackner, *Chairman;* Professors Ricardo B. Morant*, Zick Rubin, Marianne L. Simmel *(Adjunct)*, Arthur Wingfield*; Associate Professors Maurice Hershenson, David J. Ingle *(Visiting)*, Raymond Knight, Leslie Z. MacArthur, Jerome Wodinsky; Assistant Professors Teresa M. Amabile, Susan Goldberg, Donald N. Kaiser, Edith V. Sullivan *(Visiting)*, Malcolm W. Watson; Lecturers with the rank of Assistant Professor Lawrence E. Arend, Jr., Solomon Levin; Instructors Michael Berbaum, Margie Lachman.**

* On Leave Fall Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

A. Minimum of 8 semester courses in Psychology including:

1) PSYCH 5 (Introduction to Psychology)

2) PSYCH 10 (A semester of statistics and a semester of research methods, taken jointly)

3) Two courses in Basic Processes represented by PSYCH 102 (Physiological Psychology), PSYCH 103 (Cognitive Processes), PSYCH 104 (Learning), PSYCH 108 (Sensory Processes), PSYCH 109 (Perception)

4) Two courses in Basic areas represented by PSYCH 113 (Personality Psychology), PSYCH 114 (Abnormal Psychology), PSYCH 115 (Developmental Psychology), PSYCH 117 (Social Psychology), and PSYCH 119 (Comparative Psychology)

B. Some courses have prerequisites, which are listed in the catalog. PSYCH 5 is a prerequisite for most courses. Calculus is a prerequisite for PSYCH 10. It may be taken Pass/Fail.

C. A total of 3 semester courses outside of psychology is required of concentrators. These include:

1) One semester of Computer Science. It is strongly recommended that students take Computer Science 16a to fulfill the computer science requirement, since this course is specifically tailored to psychology majors. Note that Psychology 10b (Statistics) must be taken prior to or concurrently with COSCI 16a.

2) One semester of Chemistry, Physics, or Biology from BIOL 12a, 21a, 41a, 50a, CHEM 9, 11, PHYS 10, 11, BIOSC 4, 5, 7.

3) One semester of Anthropology.

Requirements for Degree with Distinction

A. A senior honors research project is required for a degree with distinction. Students planning to do honors research should find an official advisor before the end of their junior year, and they should enroll in Psychology 99 during their senior year. This course can be counted toward the eight required of concentrators.

B. A form specifying the requirements for honors research is available at the Psychology Department office.

Students who plan to do graduate work in psychology should take PSYCH 195 (Psychological Theory) and should consider taking at least one of the following: PSYCH 190, PSYCH 196 (Advanced courses in experimental research methods).

Psychology and Psycholinguistics

An alternate concentration in Psychology and Psycholinguistics will consist of eleven courses drawn from psychology and from the linguistics program.

The Psychology requirement will be satisfied by PSYCH 5, 10 or 12, 190, 154, 103, 173, and 99. It is suggested that at least two of the following also be taken: PSYCH 102, 109, 115, 195.

The Linguistics requirement will be satisfied by LING 100a, 110a, and 120b plus any two of the following; LING 112b, 125a, 130a, 194bR, or 197a.

Admission and structuring of this alternative concentration is subject to the approval of the Psycholinguistics coordinators (Arthur Wingfield and Jane Grimshaw).

PSYCH 3a Freshman Seminar: Nature, Art, and Illusion

PSYCH 5a,aR Introduction to Psychology

PSYCH 10a,aR Experimental Psychology

PSYCH 10b,bR Statistics and Quantitative Methods

PSYCH 98a,b Readings in Psychological Literature

PSYCH 99 Senior Research

PSYCH 102b Physiological Psychology

PSYCH 103aR Cognitive Processes

PSYCH 104a Learning and Behavior

PSYCH 106b (ANTHR 106b, DC 79E) Friendship

PSYCH 108a Sensory Processes

PSYCH 109b Perception

PSYCH 113a Personality

PSYCH 114a Abnormal Psychology

PSYCH 115a,aR Child Development

PSYCH 117b,bR Social Psychology

PSYCH 119aR Comparative Psychology

PSYCH 130b Adult Development and Aging

***PSYCH 131b** Social Development

***PSYCH 132aR** Cognitive Development

***PSYCH 133aR** Altruism and Prosocial Behavior

PSYCH 134b Perspectives on Parental Behavior

PSYCH 135bR Seminar in Social Cognition

PSYCH 136a Advanced Topics in Developmental Psychology

PSYCH 137b Social Interaction

***PSYCH 138a** Social Relationships

***PSYCH 139b** Development of Play and Imagination

***PSYCH 154a** Human Memory

***PSYCH 155a** Visual Space Perception

***PSYCH 156b** Perceptual Development

PSYCH 160b Seminar on Sex Differences

PSYCH 161a,b Mental Health in the U.S. — Field Work

***PSYCH 162a** Psychosomatics

PSYCH 166b Psychopathology and Cognition

PSYCH 167b Schools of Psychotherapy and Behavior

PSYCH 168a The Psychology of Creativity

PSYCH 169aR Disorders of Childhood

PSYCH 171a Biological Bases of Motivation

PSYCH 172aR Temporal Patterning of Behavior

PSYCH 173aR (LING 173aR) Introduction to Psycholinguistics

***PSYCH 175b** Recent Advances in Animal Behavior

***PSYCH 176b (PHYS 16b)** Light, Color and Vision

PSYCH 177a Biological Basis of Behavior

PSYCH 180b (SOC 196b) Seminar: Writing and the Social Sciences

PSYCH 193b Tests and Measurements

PSYCH 194bR (LING 194bR, PHIL 194bR, DC 76D) Language and Mind

PSYCH 195a Introduction to Psychological Theory

***PSYCH 196a** Research Methods in Social Psychology

PSYCH 197a (LING 197a) Language Acquisition and Development

***PSYCH 198b (LING 198b)** The Language of Thought

***PSYCH 199a** Aphasia and Language Breakdown

ROMANCE AND COMPARATIVE LITERATURE

Associate Professor Stephen J. Gendzier, *Chairman*
Comparative Literature: Associate Professor Richard H. Lansing *(Chairperson and Student Advisor to Seniors);* Professor Edward Engelberg *(Student Advisor).*
French: Professor Murray Sachs; Associate Professors Stephen J. Gendzier, Erica Harth; Assistant Professors Maureen Boulton, George Joseph, Edward K. Kaplan *(Student Advisor),* Walter Kasell *(Language Coordinator);* Lecturer Jean Albert Rousseau.**
Italian: Associate Professor Richard H. Lansing *(Student Advisor);* Instructor Danielle Scouras.
Spanish: Professors James E. Duffy, Denah Lida *(Student Advisor);* Associate Professors Andree Collard, Luis E. Yglesias; Assistant Professors Teresa Mendez-Faith, Judith Rauchwarger, Harry L. Rosser *(Language Coordinator);* Lecturer Lorraine Ledford.**

** On Leave Spring Term 1980-81

For course offerings and requirements for concentration, see Comparative Literature, French, Italian and Spanish.

RUSSIAN LANGUAGE AND LITERATURE

Faculty: See GERMANIC AND SLAVIC LANGUAGES

Requirements for Concentration

A. EULIT 100a and b in the first year of the concentration, taken in sequence.

B. Advanced language and literature study: RUS 3a, 106b, 112b or 117a, 130aR, 149bR, 161b and any two of seminars 150b, 153aR and 156a.

C. All concentrators are required to complete the Senior Seminar, in one of the following two ways: EULIT 97a: Senior Essay; EULIT 99: Senior Honors Thesis. Departmental Honors candidates must elect the Thesis option and enroll in EULIT 99 (which is a full year course), after having first obtained the consent of the Area Head of Russian Language and Literature at the beginning of the senior year. Honors will be awarded on the basis of cumulative excellence in all courses taken in the concentration, including the Senior Seminar.

RUS 1 is a full year course and may not be dropped with credit at mid-year.

Certain offerings in Russian literature, marked # below, are open to all students and are conducted in English. Students wishing credit towards the Russian concentration will be required to do all the reading in the original. These courses do meet the distribution requirement but cannot be taken in fulfillment of the Foreign Literature Requirement.

RUS 1 Introductory Russian

RUS 2a Second Level Russian

RUS 3a Conversation and Composition

RUS 4a Intermediate Russian

RUS 5b Advanced Intermediate Russian

RUS 6a Advanced Readings in Russian Culture I

***RUS 6b** Advanced Readings in Russian Culture II

***RUS 7aR** The 19th-Century Writer and Society: Freshman Seminar

RUS 98b Independent Study

EULIT 97a Senior Essay

RUS 98a,b Independent Study

EULIT 99 Senior Honors Thesis

EULIT 100a Critical Approaches to European Literature

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre: The Romance

RUS 106b Advanced Composition, Conversation and Reading

RUS 112b Theory of Language (Proto-Slavic)

***RUS 117a** Pre-Nineteenth Century Russian Literature

#RUS 130a Nineteenth Century Russian Literature

***RUS 145b** Nabokov

***#RUS 146a** Dostoevsky

***#RUS 148a (THA 148a, DC 79H)** A Survey of Russian Theater from 1719-1917

***RUS 148b (THA 148b, DC 79L)** A Survey of 20th-Century Russian Theater

***#RUS 149bR** 20th-Century Russian Literature

RUS 150bR Russian Prose — Undergraduate Seminar

RUS 153aR Russian Poetry — Undergraduate Seminar

RUS 156aR Russian Drama — Undergraduate Seminar

***RUS 161b** The Structure of Modern Russian

SOCIOLOGY

Professor Irving K. Zola, *Chairman*, Professors Egon Bittner, Everett C. Hughes *(Emeritus)*, Morris S. Schwartz, Maurice R. Stein, Kurt H. Wolff*; Visiting Professor Ralph Miliband (Fall Term); Associate Professors Gordon A. Fellman, Charles S. Fisher*, George W. Ross; Assistant Professors Asoka Bandarage, Karen E. Fields***, Gila J. Hayim, Paula Rayman, Kristine M. Rosenthal, Carmen J. Sirianni.**

* On Leave Fall Term 1980-81
** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

1) Eight semester courses in sociology which must include:
   a) One course chosen from among 2a, 4a, 6a, 7b. This course should be taken early in the curriculum.
   b) At least one course in each of ***three*** sub-areas from among those listed below;

      Theory — SOC 108b, 110b, 122a, 141a, 141b, 164a.

      Methods and Fieldwork — SOC 132a, 132b, 136a, 136b, 151a, 151b, 163b, 181a, 185a, 185b.

      Political and Legal Sociology — SOC 5a, 105a (formerly 10a), 111a, 112b, 115b, 119b, 120a, 127b, 150a, 155a, 167a, 171a, 175a, 176b, 188b.

      Sociology of Institutions and Culture — SOC 8a, 104a, 106b, 116b, 117a, 118a, 118b, 128b, 130a, 130b, 131a, 133b, 145a, 154b, 168a, 170b, 172b, 173b, 174b, 190b.

      Social Psychology and Social Psychiatry — SOC 102a, 102b, 103a, 107a, 107b, 126a, 126b, 135a, 143a, 147a, 148a, 148b, 152b, 165a, 191a, 192b.
2) Two semester courses above the introductory level in other departments in the School of Social Science. Students enrolled in the Education Program may meet this requirement by taking History 51a and 51b.
3) Honors candidates are required to take SOC 99 in addition to the eight sociology courses.

The requirements as specified above apply only to students declaring their intention to concentrate in sociology after September 1, 1980.

SOC 2aR History of Sociological Theory

SOC 3b Freshman Seminar: Of Birth and Death

SOC 4a,b,aR Basic Concepts in Sociology

SOC 5a Introduction to Criminology

***SOC 6aR** Concepts of Social Order

SOC 7a Basic Survey of Sociology

***SOC 8a** Education and Society

SOC 9b Freshman Seminar: Survival in a Man-Made World: The Threats and Promises of Technology

SOC 90a,b Directed Independent Study

SOC 97a,b Group Readings and Research in Sociology

SOC 98a,b Individual Readings and Research in Sociology

SOC 99 Senior Research

SOC 102a Social Psychiatry

SOC 102b Social Psychiatry (Advanced)

***SOC 103a** The Sociology of Mental Illness and Health

SOC 104aR Sociology of Education

SOC 105a Feminist Critique of Contemporary Social Institutions

***SOC 106b** Sociology of Literature

***SOC 107aR** Issues in Social Psychology

SOC 107bR Issues in Social Psychology

SOC 108b Critiques of Contemporary Society

***SOC 110bR (HIDEA 110bR)** Sociology of Knowledge

***SOC 111a** Political Sociology

SOC 112b Social Class, Freedom, and Equality

SOC 116bR (AAAS 116bR) Comparative Ethnic Relations

***SOC 117a** Work and Society

SOC 118a (JCS 161a, NEJS 161a) American Jewish Life and Institutions

***SOC 118b (JCS 164b, NEJS 164b)** Sociology of American Jewish Community

SOC 119bR Social Change: The Nonviolent Movement

***SOC 120a (AAAS 121a)** Sociology of Underdevelopment I

***SOC 120b (AAAS 121b)** Sociology of Underdevelopment II

SOC 122a (DC 78H) Sociology of Power

***SOC 126a** Sociology of Deviance

***SOC 126b** Planned Communities

***SOC 128bR** Sociology of Religion: Sects, Cults, and Revivals in American Life

SOC 130aR The Family I

***SOC 130b** The Family II

SOC 131Ha The Social Structure of Israel

SOC 132a Urban Sociology

***SOC 132b** Urban Field Investigations

***SOC 133b** Comparative Urban Cultures

SOC 135a Group Process

***SOC 136a** Field Work in Institutions I

SOC 136b Field Work in Institutions II

SOC 141a Marx and Freud

SOC 141b Advanced Seminar on Marx and Freud

***SOC 143a** Studies in Social Interaction, the Self, and Society

SOC 143aR Studies in Social Interaction, the Self, and Society

***SOC 145aR** Sociology of Life Styles: Socialization and Social Class

***SOC 147a** The Social Psychology of Organizations and Groups

***SOC 148a** Social Psychology of Consciousness I

SOC 148b Social Psychology of Consciousness II

***SOC 150a** Sociology of Revolutionary Change

***SOC 151a** Social Class in Rural and Urban Settings: Environmental Research

SOC 151b Environmental Research

SOC 152b The Sociology of Generations: The Adolescent in Society

***SOC 155bR** Social Movements

***SOC 163b** Therapy and Punishment (Criminology II)

SOC 164a Existential Sociology

SOC 165a Sociology of Birth and Death

SOC 167a Comparative Social Structures: Advanced Capitalist Societies

SOC 168a American Society

SOC 170b Industrial Sociology

SOC 171a (AAAS 171a) Women and Development

***SOC 172bR (AMSTD 150bR)** The Family in the U.S.

SOC 173b Contemporary Social Problems

SOC 174b Technology and the Environmental Crisis

***SOC 175aR** Theories of Social Change and Social Action

SOC 176b (AAAS 176b) Issues in Third World Development

SOC 177b Aging in Society

SOC 178a Sociology of the Professions

***SOC 180aR** Social Organization and Marxist Politics

SOC 181aR Methods of Social Research

SOC 185a (SOWEL 4.01a) Research Methods and Statistics I

SOC 185b (SOWEL 4.02b) Research Methods and Statistics II

SOC 188bR The Sociology of Law

SOC 190b On the Caring of Caretaker Institutions

SOC 191a Health, Community and Society

***SOC 192b** Healing and Healers: Self-Care — Self-Help Movement

SOC 196b (PSYCH 180b) Seminar: Writing and the Social Sciences

SOVIET STUDIES PROGRAM

Assistant Professor Steven L. Burg (Politics), *Chairman;* Professors Joseph S. Berliner (Economics), I. Milton Sacks (Politics); Associate Professors Gregory L. Freeze (History), Robert Szulkin* (Russian Language and Literature), Barney K. Schwalberg (Economics); Lecturer David A. Hanson (with the rank of Assistant Professor) (Russian Language and Literature).

Soviet Studies is an interdisciplinary program for students concentrating in existing departments of the University. The purpose of the program is to allow students with an interest in Russia and the Soviet Union to acquire knowledge and develop skills in addition to those possible in existing concentrations. The program combines and integrates courses from a number of departments, and requires students to participate in an interdisciplinary seminar which results in a formal research project. Students must elect the program in addition to their regular concentrations; transcripts will indicate that they have completed the requirements of the program.

* On Leave Fall Term 1980-81

Requirements for Program

1. Students must complete courses in HIST 147a, b (History of Russia) and RUS 6a (Advanced Readings in Russian Culture).

2. Completion of one advanced course dealing with Russia and the Soviet Union in ***three*** of the four disciplines participating in the program (History, Literature, Politics, Economics). See list below.

3. Participation in the senior interdisciplinary seminar, Soviet Studies 97b. This seminar will investigate a single problem that benefits from interdisciplinary analysis. Seminar topics vary from year to year.

***ECON 24aR** The Soviet Economy

ECON 32bR Comparative Economic Systems

***HIST 115b** Seminar on Medieval Russia

***HIST 134b** The Crisis of Late Stalinism

***HIST 138b** Empires, Nationalism, and Revolution in Eastern Europe 1815-1948

***HIST 147a** The Rise of Imperial Russia

***HIST 147b** History of Russia Since 1861

***HIST 148b** Seminar on Imperial Russia

***NEJS 168bR** History of the Jews in the Soviet Union

***NEJS 170bR** Jewish Life and Institutions in Eastern Europe

POL 97a Political Process

***POL 97b** Marx: Social and Political Theory

POL 129bR Communism in Eastern Europe

POL 130bR Government and Politics in the Soviet Union

***POL 177aR** Soviet Foreign Policy

***RUS 6a** Advanced Readings in Russian Culture I

***RUS 149bR** Twentieth Century Russian Literature

RUS 156aR Russian Drama: Undergraduate Seminar

SOVST 97b Senior Seminar

SPANISH LANGUAGE AND LITERATURE

Faculty: See ROMANCE AND COMPARATIVE LITERATURE

Requirements for Concentration

A. EULIT 100a and 100b in the first year of the concentration, taken in sequence.

B. Eight semester courses to be determined in consultation with the Concentration Advisor and approved by the faculty of the Spanish area. Of these, six must be from the Spanish offerings above the 105 level and two may be from related fields.

C. All concentrators are required to complete the Senior Seminar, in one of the following two ways: 1) EULIT 97a: Senior Essay; 2) EULIT 99: Senior Honors Thesis. Departmental Honors candidates must elect the Thesis option and enroll in EULIT 99 (which is a full year course), after having first obtained the consent of the Advisor to Concentrators at the beginning of the senior year. Honors will be awarded on the basis of cumulative excellence in all courses taken in the concentration, including the Senior Seminar.

SPAN 1 Beginning and Elementary Spanish

SPAN 1aA Intensive Beginning and Elementary Spanish

SPAN 2bB Intensive Intermediate Spanish

SPAN 3a Intermediate Spanish

SPAN 4b,bR Advanced Intermediate Spanish

SPAN 5a,aR Reading Spanish

SPAN 6a,aR Readings in Spanish: An Introductory Course

EULIT 97a Senior Essay

SPAN 98a,b Independent Study

EULIT 99 Senior Honors Thesis

EULIT 100a Critical Approaches to European Literature

EULIT 100b The Development of a Genre: The Romance

SPAN 105b Intermediate Conversation and Composition

***SPAN 106bR** Advanced Spanish Translation, Composition and Stylistics

SPAN 120a Cervantes: In-Depth Study of *Don Quixote*

SPAN 125a The 17th Century

***SPAN 130a** Nineteenth Century Spanish Literature

SPAN 140aR Masters of Spanish Poetry

***SPAN 150aR** Spanish Drama of the Siglo de Oro

***SPAN 160a** Studies in Latin American Literature I

SPAN 160b Readings in Latin American Literature II

***SPAN 161aR** Masters of Modern Latin American Poetry

#SPAN 162bR Studies in Argentine and Brazilian Literature

***SPAN 163b** Colonial and 19th Century Latin American Literature

***#SPAN 170b** The Generation of 1898

SPAN 180b Twentieth Century Spanish Literature

THEATER ARTS

Professor Theodore L. Kazanoff, *Chairman;* Professors Howard Bay, James H. Clay, Martin Halpern, Charles W. Moore, Kevin Smith *(Adjunct/Film);* Visiting Professor John Bush Jones; Associate Professors Muriel R. Dolan***, Maureen Heneghan, Robert O. Moody, Jr.**; Assistant Professor Cheryl G. McFadden*; Lecturers Mabel Haley, Cindia Huppeler; Artists-in-Residence Daniel Gidron, Barbara Harris, Ted Janello, Denise Loewenguth, Tina Rolff.**

* On Leave Fall Term 1980-81
** On Leave Spring Term 1980-81
*** On Leave AY 1980-81

Requirements for Concentration

A. All concentrators must complete twelve semester courses in the department. These must include THA 1, 2a, and three semester courses in dramatic theory and literature to be chosen from the courses numbered between 122a and 186b.

B. All concentrators are required to serve on the production crews of departmental productions twice in the sophomore year, once in the junior year and once in the senior year.

C. The award of departmental distinction will be conferred by the staff for exceptional scholarship or creativity.

D. With the permission of the adviser and the instructor, especially qualified undergraduates may enroll in graduate courses.

THA 1a,b Introduction to Drama and the Theater

THA 2a Physical Production I

THA 2b Physical Production II

THA 3 Acting

THA 5 Voice and Speech Studies for the Actor

THA 8 Acting for the Stage

THA 9 Stage Movement for the Actor

THA 22 Scene Design and Stage Lighting

THA 26 Costume Design

THA 33 Intermediate Acting

THA 96 Independent Study: Film

THA 97 Tutorial: Acting/Design

THA 98 Independent Study

***THA 102** Directing

THA 104 Dramatic Writing

THA 122a Modern Drama

THA 124a,b (ENG 33a,b) Shakespeare

***THA 125a (AMSTD 125a, ENG 38a)** History of American Drama, 1665-1919

THA 125b (AMSTD 125b, ENG 37b) History of American Drama: 1919 to Present

THA 126bR (MUSIC 39bR) Musical Theater Since Gilbert and Sullivan

***THA 135b (AMSTD 135b)** The History of Popular Arts in America

THA 140aR (ENG 133aR) Advanced Shakespeare

***THA 145a (AAAS 135a)** Black Drama I

***THA 145b (AAAS 135b)** Black Drama II

***THA 148a,b (RUS 148a,b, DC 97L)** A Survey of Russian Theater, 1719-1917

***THA 155b (COLIT 155b, DC 78J)** The Rising Sun: Japanese Literature from the 10th-Century to the Present

***THA 157b (ENG 157b)** Modern British Drama and Theater

***THA 165a** Greek Drama

***THA 165b (ENG 164b)** Restoration and 18th-Century Drama

THA 169bR (ENG 143bR) English Drama Before Shakespeare

***THA 170a (ENG 143a)** Elizabethan and Jacobean Drama

***THA 170bR (ENG 142bR, HUM 125a)** Medieval European Drama

***THA 171a (MUS 171a)** History of Music and Drama Criticism

THA 171b (COLIT 170b) Modern Tragedy

THA 180a Seminar in Production Concepts

***THA 180b** Seminar in Production Concepts

***THA 182b,bR (ENG 147b,bR)** American Drama

UNIVERSITY STUDIES (See p. 59)

URBAN STUDIES PROGRAM

Committee: Associate Professor Martin A. Levin (Politics), *Chairman;* Associate Professors Gerald Bernstein (Fine Arts), Leonard Hausman (Economics and Heller School), David Jacobson (Anthropology); Assistant Professors Randall Filer (Economics), Paula Rayman (Sociology).

The Program in Urban Studies is designed to give undergraduates the opportunity to study and systematically analyze the urban area from an interdisciplinary perspective. The complexity of the urban world requires such a perspective. However, this analysis also should proceed from the fundamental concepts and methods of one of the social science disciplines; the analytical techniques acquired from one of them will then be applied to the urban area. These interdisciplinary and disciplinary goals are reflected in the requirements of the Program listed below.

Students normally will declare their intention to enter the Program at the time of declaring fields of concentration in the spring. They may concentrate in any university department; their degree will be in that concentration with the additional citation that they have fulfilled the requirements of the Program of Urban Studies.

Requirements for the Program

A. Satisfactory completion of URBST 101b, preferably no later than the student's junior year.

B. Satisfactory completion of four courses in a single social science discipline. The aim of this requirement is to provide students with the fundamentals of the discipline. Thus, most or all of these four courses will not be urban related, but rather introductory and fundamental courses in the discipline.

C. Satisfactory completion of four urban-related courses in other disciplines. Normally these will be selected from the list below, but other courses may be included if they are relevant to the student's particular program in Urban Studies. Students should consult with their advisors in Urban Studies for details.

D. Students will have the option of writing a senior honors thesis in Urban Studies that also satisfies the student's departmental honors requirement, with the approval of that department.

Each student in the Program will be assigned an advisor to help the student develop his/her individual program around his/her intellectual interests. A non-credit Urban Studies colloquium series will focus on policy problems.

URBST 98a Independent Study

URBST 99 Senior Research

URBST 101b (POL 97b) The Limits of the Market and Public Interventions

AAAS 50a Black Political Economy

AAAS 125a Political Development in the Black Community I

AAAS 125b Political Development in the Black Community II

AMSTD 111a The Structure of Power and the Political Process

AMSTD 180b Problems in Contemporary American Education

ANTHR 133b Anthropological Fieldwork

ANTHR 158aR Urban Anthropology

ANTHR 158b Selected Topics in Urban Anthropology

ECON 34aR Economics of the Public Sector

ECON 37aR The Political Economy of Cities

ECON 45b Policy Analysis and Policy Implementation

ECON 57a The Economics of Environment and Resources

ECON 74bR Law and Economics

ECON 76bR Labor Economics

ECON 78b Income Maintenance Programs and Policies

FA 21b Great Buildings of the Western World

FA 120a Modern Architecture

FA 122a American Architecture and Painting

HIST 158a Working-Class History in the United States

HIST 159a Immigration and Immigrants in American History

HIST 161bR The American Polity

POL 16a American Politics in Nation and City

POL 94b Seminar: Public Policy

POL 107b Politics of Public Policy

POL 109bR Federalism

POL 119a Seminar: Policymaking in Urban Areas

POL 120aR Politics of Urban Areas

POL 123b The Politics of Urban Criminal Justice

POL 124a Labor and Politics in the United States

SOC 5a Introduction to Criminology

SOC 111aR Political Sociology

SOC 112b Social Class, Freedom and Equality

SOC 122a Sociology of Power

SOC 132a Urban Field Studies

SOC 133b Comparative Urban Cultures

SOC 188b Sociology of Law

WOMEN'S STUDIES PROGRAM

Committee: Assistant Professor Joyce Antler (American Studies), *Chairman;* Professor John Demos (History); Associate Professor Susan Staves (English and American Literature)*; Assistant Professors Susan Okin (Politics), Paula Rayman (Sociology).**

*** On Leave AY 1980-81

Women's Studies is an interdisciplinary program for students concentrating in the existing departments of the University. The aim of the program is to integrate an interest in women's experience with social science, humanities, and the arts in a more direct way than is possible in the existing concentrations.

Requirements for the Program

A. Successful completion of WOMEN 10a or b (preferably 10a).

B. Four semester courses chosen from the listings provided below.

C. A senior research paper on an approved topic.

Students will also participate in a colloquium series on topics related to women.

WOMEN 10a (AMSTD 123a)

WOMEN 10bR (AMSTD 123bR) Women in American History: 1865 to Present

***WOMEN 43a (ENG 43a)** Images of Femininity in Tudor Literature

WOMEN 99a Directed Research

The following courses may be counted among the four electives required for completion of the program:

***COLIT 125a** Women in Literature

ENG 177b Contemporary Women Writers

SOWEL 5.25b Family Employment and Sex Roles

***HIST 139a** Women in Modern Europe

***HIST 151b** Male and Female in the American Past

POL 198b Women in Western Political Thought

PSYCH 160b Seminar on Sex Differences

***SOC 105a** Feminist Critique of Contemporary Social Institutions

SOC 171a Women and Development

SOC 208aR The Industrial and Labor Process

One, but no more than one, of the following courses on the family may be counted among the four electives required for completion of the program:

AAAS 101aR The Black Family in America

***ANTHR 100a (LAS 100a)** The Family in the Political Economy of Latin America

COLIT 146a The Family in Modern Fiction

***SOC 130a** The Family I

YIDDISH LANGUAGE AND LITERATURE

Faculty: See NEJS

***Y 1aA (NEJS 21aA)** Intensive Introductory Yiddish

Y 1 (NEJS 21) Introductory Yiddish

Y 2 (NEJS 24) Intermediate Yiddish

***Y 2bB (NEJS 24bB)** Intensive Intermediate Yiddish

***Y 6a,b (NEJS 25a,b)** Introduction to Yiddish Literature

***Y 171b (NEJS 171b)** Trends and Values in Yiddish Literature

***Y 173b (NEJS 173b)** Seminar in Yiddish Literature: Contemporary Poetry

University Organization

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Under Massachusetts law, the 50-member Board of Trustees is the governing body of the University. There are also four faculty representatives and three student representatives to the Board who participate in Board meetings and have votes on the several committees. The Chairman of the Board of Fellows, the President of the National Women's Committee, and the President of the Alumni Association serve *ex-officio.* Alumni elect annually an Alumni Term Trustee who serves as full voting Trustee for a five-year term.

The President and the Chancellor

The President is the chief executive officer of the University. He is appointed by the Board of Trustees and is responsible for all University activities. Chancellor of the University is an honorary title held by Abram L. Sachar, whose 20 years of experience as first president of Brandeis is now utilized for the welfare of the University. The Chancellorship carries no administrative responsibilities.

Academic Deans

The Dean of Faculty supervises academic policy, undergraduate and graduate curricula, the faculty and its department of instruction.

The Dean of the College of Arts and Sciences assumes responsibility for many areas affecting the academic lives of undergraduates, including curriculum development, advisory services and the academic progress of students.

The Dean of the Graduate School of Arts and Sciences oversees the individualized programs of study for scholars, scientists and artists in 20 disciplines.

The Dean of the Florence Heller Graduate School for Advanced Studies in Social Welfare oversees the academic activites of the University's first and only professional school, and its work in such areas as health, aging, income and employment, and minorities.

The Faculty Senate

The Faculty Senate, the elected representative body of the faculty, discusses such issues as academic freedom and responsibility, University policy, appointments, tenure, dismissal and salaries.

The Board of Fellows

Created in 1951, the Board of Fellows consists of more than 450 national leaders from a broad base of business, educational and public life. Its members lend counsel, expertise and support to University development and planning programs.

The President's Council

President's Councilors are leading men and women throughout the country whose skills and experience are placed at the disposal of the Brandeis President in areas of their special competence.

National Women's Committee

The National Women's Committee, now an organization of more than 60,000 members, has been a partner with the University since 1948. This volunteer organization gives its membership a wide range of educational offerings. These include unique study group programs with syllabi provided by Brandeis faculty; adult education seminars in local communities called "University on Wheels," and special lectures by University speakers. The more than 120 chapters across the country are embassies of good will for the University. The central commitment of the Women's Committee, however, is to the Brandeis University libraries. Since it was founded by eight members in Boston, it has raised more than 17 million dollars in support of the libraries.

University Libraries

From an initial 2,000 volumes housed in a remodeled stone stable in 1948, the holdings of the Goldfarb Library and the Gerstenzang Library of Science today number more than 775,000 volumes, including microtexts. The libraries boast an impressive collection of microfilm holdings, as well as periodical titles and newspapers.

Alumni Relations

The Office of Alumni Relations, located in the Gryzmish Academic Center, directs and coordinates programs and publications for all Brandeis alumni, the National Alumni Association, regional Alumni Chapters and the Alumni Fund.

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Ph.D., New York University

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Ph.D., Harvard University

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Ph.D., Stanford University

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M.F.A., Brandeis University

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Ph.D., State University of New York, Stony Brook

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Ph.D., Duke University

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Ph.D., Columbia University

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Ph.D., Yale University

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M.A., Oxford University

Ross Bauer, *Instructor in Music*
M.F.A., Brandeis University

Howard Bay, *Alan King Professor of Theater Arts*

Joseph Becker, *Adjunct Associate Professor of Mathematics*
Ph.D., Rice University

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Ph.D., Princeton University

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Ph.D., Princeton University

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Ph.D., University of Wisconsin

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Ph.D., Cambridge University

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M.S., University of Michigan

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Ph.D., University of Virginia

David Sandler Berkowitz, *Professor Emeritus of History*
Ph.D., Harvard University

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Ph.D., Harvard University

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

Boris Berman, *Artist-in-Residence (Music)*
M.A., Moscow Tchaikovsky Conservatory

Gerald S. Bernstein, *Associate Professor of Fine Arts*
Ph.D., University of Pennsylvania

Rudolph Binion, *Leff Families Professor of Modern European History*
Ph.D., Columbia University

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Ph.D., Harvard University

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Ph.D., University of California, Los Angeles

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Ph.D., Harvard University

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Ph.D., Harvard University

Ludovico Borgo, *Robert B. Mayer Memorial Professor of Fine Arts*
Ph.D., Harvard University

Maureen B. Boulton, *Assistant Professor of French and Comparative Literature*
Ph.D., University of Pennsylvania

Martin Boykan, *Professor of Music*
M.M., Yale School of Music

Paul H. Brainard, *Professor of Music*
Ph.D., University of Gottingen

Naftali C. Brandwein, *Rose B. and Joseph H. Cohen Professor of Modern Hebrew Literature*
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Robert Brannum, *Lecturer with rank of Assistant Professor of Physical Education*
B.S., Michigan State University

Yale M. Braunstein, *Assistant Professor of Economics*
Ph.D., Stanford University

Christine Brooke-Rose, *Fannie Hurst Visiting Professor of English*
Ph.D., University of London (University of Paris)

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Ph.D., Massachusetts Institute of Technology

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M.F.A., Yale School of Art and Architecture

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Ph.D., University of Chicago

David A. Buchsbaum, *Professor of Mathematics*
Ph.D., Columbia University

Steven L. Burg, *Assistant Professor of Politics*
Ph.D., University of Chicago

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

Ann R. Cacoullos, *Ziskind Visiting Associate Professor of Philosophy*
Ph.D., Columbia University (Deree College, Athens)

L. Edward Cannon, III, *Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., University of Georgia

Karl F. Canter, *Associate Professor of Physics*
Ph.D., Wayne State University

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Ph.D., Harvard University

Donald L.D. Caspar, *Professor of Physics and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., Yale University

Anthony J. Cataldo, Jr., *Instructor in Physical Education*
B.S., Springfield College

Iu-Yam Chan, *Associate Professor of Chemistry*
Ph.D., University of Chicago

Barry Chazan, *Visiting Associate Professor in the Hornstein Program*
Ed.D., Columbia University (Hebrew University)

Peter Child, *Instructor in Music*
M.F.A., Brandeis University

Max Chrétien, *Associate Professor of Physics*
Ph.D., University of Basel

Ju-hsiang Ch'uan, *Assistant Professor of Chinese Language (History Department)*
A.B., Central Academy of Music, People's Republic of China

****James H. Clay,** *Professor of Theater Arts*
Ph.D., University of Illinois

****Helen Codere,** *Professor of Anthropology*
Ph.D., Columbia University

Carolyn Cohen, *Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., Massachusetts Institute of Technology

Ellis Cohen, *Assistant Professor of Computer Science*
Ph.D., Carnegie-Mellon University

Jacob Cohen, *Associate Professor of American Studies*
M.A., Yale University

Jacques Cohen, *Professor of Computer Science*
Ph.D., University of Illinois

Saul G. Cohen, *Charles A. Breskin University Professor of Chemistry*
Ph.D., Harvard University

Samuel K. Cohn, Jr., *Assistant Professor of History*
Ph.D., Harvard University

H. Michael Coiner, *Assistant Professor of Economics*
Ph.D., Yale University

Andrée M. Collard, *Associate Professor of Spanish*
Ph.D., Harvard University

Peter Conrad, *Visiting Assistant Professor of Sociology*
Ph.D., Boston University

Michael W. Coven, *Lecturer in Physical Education*
Ed.M., Springfield College

***George L. Cowgill,** *Professor of Anthropology*
Ph.D., Harvard University

J.V. Cunningham, *Professor Emeritus of English and Humanities*
Ph.D., Stanford University

Charles Cutter, *Lecturer in Near Eastern and Judaic Studies*
Ph.D., Ohio State University

Margaret Dalton, *Associate Professor of Russian*
Ph.D., Harvard University

Beth Davis, *Instructor in Education*
M.Ed., Boston College

Marvin G. Davis, *Assistant Professor of Anthropology*
Ph.D., University of Chicago

John Putnam Demos, *Professor of History*
M.A., University of California, Berkeley

David J. DeRosier, *Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., University of Chicago

***Stanley Deser,** *Enid and Natlian S. Ancell Professor of Physics*
Ph.D., Harvard University

Adrienne S. Dey, *Adjunct Assistant Professor of Chemistry*
Ph.D., University of Pennsylvania

****Muriel Rita Dolan,** *Associate Professor of Theater Arts*
M.F.A., Catholic University of America

F. Trenery Dolbear, Jr., *Clinton S. Darling Professor of Economics*
Ph.D., Yale University

Paul B. Dorain, *Professor of Chemistry*
Ph.D., Indiana University

Emily P. Dudek, *Adjunct Associate Professor of Chemistry*
Ph.D., Radcliffe College

James E. Duffy, *Professor of Romance Literature and History*
Ph.D., Harvard University

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

David Eisenbud, *Professor of Mathematics*
Ph.D., University of Chicago

Edward Engelberg, *Professor of Comparative Literature*
Ph.D., University of Wisconsin

Robert M. Ephraim, *Assistant Professor of Mathematics*
Ph.D., Princeton University

Herman T. Epstein, *Professor of Biophysics*
Ph.D., University of Michigan

Irving R. Epstein, *Associate Professor of Chemistry*
Ph.D., Harvard University

Vivian Ernst, *Assistant Professor of Biochemistry*
Ph.D., University of London

Gerald D. Fasman, *Louis and Bessie Rosenfield Professor of Biochemistry*
Ph.D., California Institute of Technology

****Leonard J. Fein,** *Adjunct Professor of Contemporary Jewish Studies*
Ph.D., Michigan State University

***Elliot J. Feldman,** *Assistant Professor of Politics*
Ph.D., Massachusetts Institute of Technology

Gordon A. Fellman, *Associate Professor of Sociology*
Ph.D., Harvard University

Ronald F. Ferguson, *Instructor in African and Afro-American Studies*
B.A., Cornell University

****Judith Ferster,** *Assistant Professor of English*
Ph.D., Brown University

****Karen E. Fields,** *Assistant Professor of Sociology*
Ph.D., Brandeis University

Randall K. Filer, *Assistant Professor of Economics*
Ph.D., Princeton University

David Hackett Fischer, *Earl Warren Professor of History*
Ph.D., The Johns Hopkins University

Michael Fishbane, *Samuel Lane Associate Professor of Jewish History and Social Ethics*
Ph.D., Brandeis University

***Charles S. Fisher,** *Associate Professor of Sociology*
Ph.D., University of California, Berkeley

Philip Fisher, *Associate Professor of English*
Ph.D., Harvard University

****Marvin Fox,** *Philip W. Lown Professor of Jewish Philosophy and Director, Lown School*
Ph.D., University of Chicago

****Bruce M. Foxman,** *Associate Professor of Chemistry*
Ph.D., Massachusetts Institute of Technology

***Gregory L. Freeze, *Associate Professor of History*
Ph.D., Columbia University

***David M. Freifelder, *Professor of Biochemistry*
Ph.D., University of Chicago

Eberhard Frey, *Associate Professor of German*
Ph.D., Cornell University

***Lawrence H. Fuchs, *Meyer and Walter Jaffe Professor of American Civilization and Politics*
Ph.D., Harvard University

Chandler M. Fulton, *Professor of Biology*
Ph.D., Rockefeller Institute

Joachim E. Gaehde, *Sydney and Ellen Wien Professor in the History of Art*
Ph.D., New York University

Stephen J. Gendzier, *Associate Professor of French*
Ph.D., Columbia University

Paul Gordon Georges, *Charles Bloom Professor of Arts of Design*

Martin Gibbs, *Professor of Biology*
Ph.D., University of Illinois

Daniel Gidron, *Artist-in-Residence (Theater Arts)*
M.F.A., Brandeis University

***Michael T. Gilmore, *Associate Professor of English*
Ph.D., Harvard University

Seymour Gitin, *Adjunct Assistant Professor of Classical and Oriental Studies and Co-Director, Hiatt-ASOR archaeological semester in Israel*

Nahum Norbert Glatzer, *Professor Emeritus of Jewish History and Social Ethics*
Ph.D., University of Frankfurt

Ariella D. Goldberg, *Adjunct Associate Professor in Near Eastern and Judaic Studies and Director, Hebrew Language Program*
Ph.D., Brandeis University

Susan Goldberg, *Assistant Professor of Psychology*
Ph.D., University of Massachusetts, Amherst

Sidney Golden, *Fischbach Professor of Chemistry*
Ph.D., Harvard University

Calvin Goldscheider, *Visiting Professor of Near Eastern and Judaic Studies*
Ph.D., Brown University (Hebrew University)

William M. Goldsmith, *Associate Professor of American Studies*
Ph.D., Columbia University

D. Neil Gomberg, *Instructor in Anthropology*
M.A., University of Michigan

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

Cyrus H. Gordon, *Professor Emeritus of Mediterranean Studies*
Ph.D., University of Pennsylvania

Robert S. Greenberg, *Associate Professor of Philosophy*
Ph.D., University of Chicago

Aaron David Gresson, III, *Assistant Professor of African and Afro-American Studies*
Ph.D., Pennsylvania State University

Jane B. Grimshaw, *Assistant Professor of Linguistics*
Ph.D., University of Massachusetts, Amherst

Peter Grippe, *Professor Emeritus of Sculpture*

Marcus T. Grisaru, *Professor of Physics*
Ph.D., Princeton University

Eugene P. Gross, *Edward and Gertrude Swartz Professor of Theoretical Physics*
Ph.D., Princeton University

Leo Gross, *Visiting Professor of Legal Studies*
S.J.A., Harvard University (The Fletcher School)

Allen R. Grossman, *Professor of English*
Ph.D., Brandeis University

Ernest Grunwald, *Professor of Chemistry*
Ph.D., University of California, Los Angeles

Mildred Guberman, *Lecturer in Jewish Communal Service*
M.S.W., Columbia University

James E. Haber, *Associate Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., University of California, Berkeley

Robert Hahn, *Assistant Professor of Philosophy*
Ph.D., Yale University

Mabel Haley, *Lecturer in Theater Arts*

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Ph.D., University of Wisconsin

Benjamin Halpern, *Professor Emeritus of Near Eastern Studies*
Ph.D., Harvard University

Martin Halpern, *Samuel and Sylvia Schulman Professor of Theater Arts*
Ph.D., Harvard University

Harlyn O. Halvorson, *Professor of Biology and Director, Rosenstiel Basic Medical Sciences Research Center*
Ph.D., University of Illinois

Eugenia Hanfmann, *Professor Emerita of Psychology*
Ph.D., University of Jena

Gordon Hankinson, *Adjunct Assistant Professor of Biology and Director, Foster Biomedical Research Center*
M.S., Pennsylvania State University

David A. Hanson, *Lecturer with rank of Assistant Professor of Russian*
Ph.D., Harvard University

Patricia Hanson, *Lecturer with rank of Assistant Professor of Russian*
Ph.D., Harvard University

Dieter Happel, *Visiting Assistant Professor of Mathematics*
Diplom, Universitat Bonn (Universitat Bielefeld)

Barbara A. Harris, *Artist-in-Residence (Theater Arts)*
M.F.A., Yale School of Drama

Michael Harris, *Assistant Professor of Mathematics*
Ph.D., Harvard University

Victor Harris, *Professor Emeritus of English*
Ph.D., University of Chicago

Erica Harth, *Associate Professor of French and Comparative Literature*
Ph.D., Columbia University

Gila J. Hayim, *Assistant Professor of Sociology*
Ph.D., University of Pennsylvania

Peter Heller, *Professor of Physics*
Ph.D., Harvard University

***Michael J. Henchman,** *Associate Professor of Chemistry*
Ph.D., Yale University

James B. Hendrickson, *Professor of Chemistry*
Ph.D., Harvard University

Maureen Heneghan, *Associate Professor of Costume Design*

Lynna Hereford, *Adjunct Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., Yale University

Simon Herman, *Visiting Professor of Modern Jewish Studies*
Ph.D., University of Witwatersrand (Hebrew University)

Maurice Hershenson, *George and Frances Levin Associate Professor of Psychology*
Ph.D., Yale University

Donald Hindley, *Professor of Politics*
Ph.D., Australian National University

Milton Hindus, *Edythe Macy Gross Professor of Humanities*
M.S., City College of New York

Hyun Höchsmann, *Assistant Professor of Philosophy*
Ph.D., University of London

Rudolf Hofmeister, *Lecturer with rank Assistant Professor of German*
Ph.D., University of Illinois

Thomas C. Hollocher, Jr., *Associate Professor of Biochemistry*
Ph.D., University of Rochester

David M. Hoose, *Assistant Professor of Music*
B.M., Oberlin College Conservatory of Music

Benjamin B. Hoover, *Professor of English*
Ph.D., University of California, Berkeley

Judith A. Houde, *Lecturer in Physical Education*
M.S.Ed., University of Tennessee

Everett C. Hughes, *Professor Emeritus of Sociology*
Ph.D., University of Chicago

Mark L. Hulliung, *Associate Professor of Politics*
Ph.D., Harvard University

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Ph.D., Northwestern University

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B.F.A., The Juilliard School

Louis Iandoli, *Lecturer in French*
M.Phil., Yale University

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Ph.D., Princeton University

Thomas Ilgen, *Assistant Professor of Politics*
Ph.D., University of California, Santa Barbara

David J. Ingle, *Visiting Associate Professor of Psychology*
Ph.D., University of Chicago

***Judith T. Irvine,** *Associate Professor of Anthropology*
Ph.D., University of Pennsylvania

Alfred L. Ivry, *Walter Stern Hilborn Professor of Near Eastern and Judaic Studies*
D. Phil., Oxford University

Ray S. Jackendoff, *Professor of Linguistics*
Ph.D., Massachusetts Institute of Technology

David Jacobson, *Associate Professor of Anthropology*
Ph.D., University of Rochester

Pierre-Yves Jacopin, *Lecturer in Anthropology*
Dipl., Sorbonne University

Theodore Janello, *Artist-in-Residence (Theater Arts)*
M.A., University of Connecticut

William P. Jencks, *Gyula and Katica Tauber Professor of Biochemistry and Molecular Pharmacodynamics*
M.D., Harvard University

***Leon A. Jick,** *Helen and Irving Schneider Associate Professor of American Jewish Studies*
Ph.D., Columbia University

William A. Johnson, *Albert V. Danielsen Professor of Philosophy and Christian Thought*
Ph.D., Columbia University

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

Patricia A. Johnston, *Assistant Professor of Classical and Oriental Studies*
Ph.D., University of California, Berkeley

John Bush Jones, *Fannie Hurst Visiting Professor of Dramatic Literature*
Ph.D., Northwestern University (University of Kansas)

Robert C. Jones, *Lecturer in African and Afro-American Studies*
B.A., Brandeis University

Peter C. Jordan, *Associate Professor of Chemistry*
Ph.D., Yale University

George Joseph, *Assistant Professor of French*
Ph.D., Indiana University

Lisel K. Judge, *Professor of Physical Education*
M.Ed., Northeastern University

William Kapelle, *Assistant Professor of History*
Ph.D., University of Massachusetts

David Kaplan, *Professor of Anthropology*
Ph.D., University of Michigan

Edward K. Kaplan, *Assistant Professor of French*
Ph.D., Columbia University

Kathleen M. Karrer, *Assistant Professor of Biology*
Ph.D., Yale University

Walter Kasell, *Assistant Professor of French and Comparative Literature*
Ph.D., Cornell University

Aaron L. Katchen, *Assistant Professor of Near Eastern and Judaic Studies*
Ph.D., Harvard University

Xandra Kayden, *Visiting Assistant Professor of Politics*
Ph.D., Harvard University

Theodore L. Kazanoff, *Professor of Theater Arts*
M.A., Smith College

Philip M. Keehn, *Associate Professor of Chemistry*
Ph.D., Yale University

***Allan R. Keiler,** *Associate Professor of Music*
Ph.D., Harvard University

***Morton Keller,** *Samuel J. and Augusta Spector Professor of History*
Ph.D., Harvard University

Albert Kelner, *Abraham S. and Gertrude Burg Professor of Microbiology*
Ph.D., University of Pennsylvania

Alexander Keyssar, *Assistant Professor of History*
Ph.D., Harvard University

****Reuven R. Kimelman,** *Assistant Professor of Near Eastern and Judaic Studies*
Ph.D., Yale University

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

Denise King, *Instructor in Physical Education*
B.S., Northeastern University

Lawrence E. Kirsch, *Associate Professor of Physics and Director, Feldberg Computer Center*
Ph.D., Rutgers University

Attila O. Klein, *Associate Professor of Biology*
Ph.D., Indiana University

Karen Wilk Klein, *Associate Professor of English*
Ph.D., Columbia University

James Kloppenberg, *Instructor in History*
M.A., Stanford University (On the Andrew Mellon Foundation)

Raymond Knight, *Associate Professor of Psychology*
Ph.D., University of Minnesota

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M. Mus., Oberlin College

Rosalind Koff, *Artist-in-Residence (Music)*

Miroslav Krek, *Lecturer in Bibliography*
M.L.S., University of Chicago

Kenneth Kustin, *Professor of Chemistry*
Ph.D., University of Minnesota

Margie Lachman, *Instructor in Psychology*
M.S., Pennsylvania State University

James R. Lackner, *Meshulum and Judith Riklis Professor of Psychology*
Ph.D., Massachusetts Institute of Technology

Robert V. Lange, *Associate Professor of Physics*
Ph.D., Harvard University

Richard H. Lansing, *Associate Professor of Italian and Comparative Literature*
Ph.D., University of California, Berkeley

Lorraine Ledford, *Lecturer in Spanish*
M.A., Harvard University

Judy Lee, *Lecturer with rank of Assistant Professor of English*
M.A., Northeastern University

Alan Lelchuk, *Writer-in-Residence (English)*
Ph.D., Stanford University

Christopher Leman, *Assistant Professor of Politics*
Ph.D., Harvard University

Max Lerner, *Professor Emeritus of American Civilization and Institutions*
Ph.D., Robert Brookings Graduate School

Martin A. Levin, *Associate Professor of Politics*
Ph.D., Harvard University

Solomon Levin, *Lecturer with rank Assistant Professor of Psychology*
Ph.D., Ohio State University

****Harold I. Levine,** *Professor of Mathematics*
Ph.D., University of Chicago

Jerome P. Levine, *Professor of Mathematics*
Ph.D., Princeton University

Lawrence Levine, *Professor of Biochemistry*
Sc.D., The Johns Hopkins University (American Cancer Society Professorship)

Norman E. Levine, *Associate Professor of Physical Education*
B.S., Bates College

Alan I. Levitan, *Associate Professor of English*
Ph.D., Princeton University

Avigdor Levy, *Associate Professor of Near Eastern and Judaic Studies*
Ph.D., Harvard University

Gwendolyn Lewis, *Assistant Professor of African and Afro-American Studies*
Ph.D., New York University

Susan Lichtman, *Instructor in Fine Arts*
M.F.A., Yale University

****Denah L. Lidah,** *Professor of Spanish*
Ph.D., University of Mexico

Blanche G. Linden, *Instructor in American Studies*
M.A., University of Cincinnati

Eva Linfield, *Artist-in-Residence (Music)*
B.A., Wellesley College

Nicholas Linfield, *Lecturer with rank of Assistant Professor of English*
Ph.D., University of Texas

Henry Linschitz, *Helena Rubinstein Professor of Chemistry*
Ph.D., Duke University

John E. Lisman, *Associate Professor of Biology*
Ph.D., Massachusetts Institute of Technology

****Elaine P. Loeffler,** *Associate Professor of Fine Arts*
B.A., Smith College

Denise Loewenguth, *Artist-in-Residence (Theater Arts)*

John M. Lowenstein, *Helena Rubinstein Professor of Biochemistry*
Ph.D., London University

Susan Lowey, *Professor of Biochemistry and Rosenstiel Basic Medical Sciences Research Center*
Ph.D., Yale University

James Luckett, *Assistant Professor of Economics*
M.A., Cornell University

Roy C. Macridis, *Lawrence A. Wien Professor of International Cooperation*
Ph.D., Harvard University

Robert J. Maeda, *Associate Professor of Fine Arts*
Ph.D., Harvard University

Joan M. Maling, *Associate Professor of Linguistics*
Ph.D., Massachusetts Institute of Technology

Robert A. Manners, *Professor Emeritus of Social Anthropology*
Ph.D., Columbia University

Frank E. Manuel, *Alfred and Viola Hart University Professor*
Ph.D., Harvard University

Eve E. Marder, *Assistant Professor of Biology*
Ph.D., University of California, San Diego

Donald Martino, *Irving Fine Professor of Music*
M.F.A., Princeton University

Teruhisa Matsusaka, *Irving Schneider Professor of Mathematics*
D.Sc., Kyoto University

***John F. Matthews,** *Max Richter Professor of American Civilization and Institutions*
A.B., University of Cincinnati

*****Alan L. Mayer,** *Professor of Mathematics*
Ph.D., Princeton University

Leslie Ann McArthur, *Associate Professor of Psychology*
Ph.D., Yale University

***Cheryl G. McFadden,** *Assistant Professor of Theater Arts*
B.A., Brandeis University

Paul Mendes-Flohr, *Visiting Associate Professor of Near Eastern and Judaic Studies*
Ph.D., Brandeis University (Hebrew University)

Teresa Mendez-Faith, *Assistant Professor of Spanish*
Ph.D., University of Michigan (On the Andrew Mellon Foundation)

James B. Merod, *Assistant Professor of English and American Literature*
Ph.D., Stanford University

Robert B. Meyer, *Associate Professor of Physics*
Ph.D., Harvard University

Marvin Meyers, *Harry S. Truman Professor of American Civilization*
Ph.D., Columbia University

Ralph Miliband, *Ziskind Visiting Professor of Sociology*
Ph.D., London School of Economics (University of Leeds)

Christopher Miller, *Assistant Professor of Biochemistry*
Ph.D., University of Pennsylvania

Izchak Miller, *Lecturer with rank of Assistant Professor of Philosophy*
Ph.D., University of California, Los Angeles

Mitchell L. Model, *Assistant Professor of Physics and Computer Science*
Ph.D., Stanford University

Paul H. Monsky, *Professor of Mathematics*
Ph.D., University of Chicago

*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

**Robert O. Moody, Jr., *Associate Professor of Theater Arts*

Charles W. Moore, *Professor of Theater Arts*
M.F.A., Yale University

***Ricardo B. Morant,** *Minnie and Harold L. Fierman Professor of Psychology*
Ph.D., Clark University

Ruth Schachter Morgenthau, *Adlai E. Stevenson Professor of International Politics*
Ph.D., Oxford University

Martha A. Morrison, *Assistant Professor of Classical and Oriental Studies*
Ph.D., Brandeis University

Thomas Morton, *Visiting Assistant Professor of Chemistry*
Ph.D., California Institute of Technology

Leonard C. Muellner, *Associate Professor of Classical and Oriental Studies*
Ph.D., Harvard University

William T. Murakami, *Associate Professor of Biochemistry*
Ph.D., University of Southern California

Walter Neumann, *Visiting Associate Professor of Mathematics*
Ph.D., Bonn University (University of Maryland)

Andrew Nicas, *Assistant Professor of Mathematics*
Ph.D., Princeton University

Alfred Nisonoff, *Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
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*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

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*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

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*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
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*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

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Director, Hiatt Institute

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Co-Director, Brandeis/ASOR Archaeological Semester

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Visiting Lecturer in Sociology

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Coordinator of Hebrew Studies

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Visiting Lecturer in Archaeology

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Ph.D., Brandeis University, Heller Graduate School

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****Kenneth J. Jones,** *John Stein Professor of Human Rehabilitation*
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*On leave, Fall Term, 1980-81
**On leave, Spring Term, 1980-81
***On leave, 1980-81

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Ph.D., Massachusetts Institute of Technology

Charles I. Schottland, *Professor Emeritus of Law and Social Welfare*
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Ph.D., Harvard University

Rebecca Black, *Senior Research Associate*
Ph.D., Boston University

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Ph.D., Washington University

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Margaret Bent, *Professor of Music*
1979 Dent Medal, The Royal Musical Association

Arthur Berger, *Irving Fine Professor of Music*
1979-1980 ASCAP Composer Award (American Society for Composers, Authors and Publishers)

David Berkowitz, *Professor Emeritus of History*
American Council of Learned Societies grant-in-aid

Carolyn Cohen, *Professor of Biology and Rosenstiel Basic Medical Sciences Research Center*
American Academy of Arts and Sciences

John Demos, *Professor of History*
Director, National Endowment for Humanities Summer Seminar

Judith Ferster, *Assistant Professor of English*
National Humanities Center Fellow

Marvin Fox, *Philip W. Lown Professor of Jewish Philosophy*
National Endowment for Humanities Fellow

Gregory Freeze, *Associate Professor of History*
Guggenheim Fellow

Arnold Gurin, *Maurice B. Hexter Professor of Social Administration*
First Incumbent: Arnulf M. Pins Visiting Professorship, Hebrew University

Michael Henchman, *Associate Professor of Chemistry*
Senior Visiting Fellow, Science Research Council, University of Birmingham

Thomas Hollocher, *Associate Professor of Biochemistry*
Fulbright Fellow, University of Adelaide, Australia

Robert Hunt, *Associate Professor of Anthropology*
American Association for Advancement of Science

Leon A. Jick, *Helen and Irving Schneider Associate Professor of American Jewish Studies*
Fellow, Center for Jewish Community Studies, Israel

Morton Keller, *Samuel J. and Augusta Spector Professor of History*
American Academy of Arts and Sciences; Harold Vyvyan Harmsworth Professor of American History, Oxford University

Alexander Keyssar, *Assistant Professor of History*
American Council of Learned Societies Fellow

Reuven Kimelman, *Assistant Professor of Near Eastern and Judaic Studies*
Sir Isaac Wolfson Visiting Professorship in Israel

Eve Marder, *Assistant Professor of Biology*
Sloan Foundation Fellow

Robert Morris, *Professor Emeritus of Social Planning*
American Association for Advancement of Science

Richard Palais, *Professor of Mathematics*
American Association for Advancement of Science

Robert Perlman, *Professor of Social Welfare*
Arnulf M. Pins Visiting Lectureship, Hebrew University

Harold Shapero, *Walter W. Naumburg Professor of Music*
1979-1980 ASCAP Composer Award (American Society for Composers, Authors and Publishers)

Susan Staves, *Associate Professor of English*
American Council of Learned Societies; Harvard Law School Liberal Arts Fellow; Guggenheim Fellow

Ian Todd, Associate Professor of Classical and Oriental Studies
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Kurt H. Wolff, *Manuel Yellen Professor of Social Relations*
Fulbright Fellow, Latrobe University, Australia

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